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THERMODYNAMIC PROPERTIES OF AIR FROM 300 TO 6000°K AND FROM 1 TO 1000 AMAGATS

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Martin Grabau and H. S. Brahinsky ARO, inc.

January 1967

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# THERMODYNAMIC PROPERTIES OF AIR FROM 300 TO 6000°K AND FROM 1 TO 1000 AMAGATS

Martin Grabau\* and H. S. Brahinsky ARO, Inc.

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<sup>\*</sup>Deceased

#### FOREWORD

The work reported herein was done at the request of Headquarters, Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), under Program Element 65402234.

The results of the research presented were obtained by ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of AEDC, AFSC, Arnold Air Force Station, Tennessee, under contract AF40(600)-1200. The work was performed under ARO Project No. VT8002, and the manuscript was submitted for publication on November 8, 1966.

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This technical report has been reviewed and is approved.

Terry L. Hershey Captain, USAF Research Division Directorate of Plans and Technology Edward R. Feicht Colonel, USAF Director of Plans and Technology

#### **ABSTRACT**

Tables for the thermodynamic properties of equilibrium air are presented at intervals of  $\log \rho = 0.2$ , the density  $\rho$  in amagats extending from 1 to 1000 amagats and at temperature intervals of 100 deg from 300 to 6000°K. In accordance with full discussion in the text of the report, the compressibility factor Z at 300 and 400°K is extrapolated to 1000 amagats by linear extrapolation of  $\log (Z - 1)$  against  $\log \rho$  at constant temperature. At 5000 and 6000°K the values of Z were obtained from unpublished virial corrections furnished by Joseph Hilsenrath of the National Bureau of Standards. Interpolations between these extremes of temperature are based on an empirical equation for the pressure-temperature lines at constant density, the form of which fits known data at medium densities and also predicts data at temperatures below 300°K. The values of the dimensionless thermal functions E/RT (internal energy) and S/R (entropy) are based on numerical integrations of Z and its derivative  $(\partial Z/\partial T)_{\rho}$ , using known values of these functions at 1 amagat as constants of integration.

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		NOMENCLATURE
a, b	, c, e	Parameters (as functions of density) in an empirical equation for pressure-temperature lines at constant density
В		Second virial coefficient in reciprocal amagats
С		Third virial coefficient in reciprocal amagats squared
D		Fourth virial coefficient in reciprocal amagats cubed
E		Internal energy in dimensionless function E/RT
H		Enthalpy in dimensionless function H/RT
k		Exponent in empirical formula for solidification pressure
ln		Natural logarithm
log		Common logarithm to base 10
m		Subscript relating to effects of intermolecular forces
p		Pressure in atmospheres
R		Gas constant in dimensionless functions, such as E/RT
S		Entropy in dimensionless function S/R
$\mathbf{T}$		Temperature in degrees Kelvin
t		Subscript relating to thermally perfect gas
У		Generic symbol for ordinate of logarithmic plot
Z		Dimensionless compressibility factor in gas law p = $ZRT\rho$
ρ		Density in amagat units
G&E	3	Symbol for tables given in Appendix III

H&K Symbol for tables of Hilsenrath and Klein (Ref. 3)

H&N Symbol for tables of Humphrey and Neel (Ref. 2)

#### SUBSCRIPT

Reference conditions at one atmosphere pressure and 273, 15%

#### REFERENCE AND USEFUL QUANTITIES FOR AIR

 $T_0 = 273.15$ °K

Gravitational Constant = 32.174 ft/sec<sup>2</sup>

1 Btu = 778.158 ft-lbs

1 gm-cal = 42,692.8 gm-cm

 $1 \text{ lb/ft}^3 = 62.4283 \text{ gm/cm}^3$ 

po = pressure at one atmosphere

 $P_0 = 1.03323 \times 10^3 \text{ gm/cm}^2$ 

 $P_{0} = 14.6959 \text{ psi}$ 

 $P_0 = 2116.22 \text{ psf}$ 

 $P_0 = 760 \text{ mm Hg}$ 

 $P_0 = 1.013246 \times 10^5 \text{ newtons/m}^2$ 

Molecular Weight = 28.967

R = Gas constant

R = 1.98726 gm-cal/gm-mole K or Btu/lb-mole R

 $R = 6.860427 \times 10^{-2} \text{ gm-cal/gm }^{\circ}\text{K or Btu/lb }^{\circ}\text{R}$ 

 $R = 3091.694 \text{ ft}^2/\text{sec}^2 \text{ }^{\circ}\text{K}$ 

 $R = 1717.608 \text{ ft}^2/\text{sec}^2 \circ R$ 

 $R = 3.66099 \times 10^{-3} \text{ atm/amagat } \%$ 

 $\rho_0$  = Density at one amagat

 $\rho_0 = 4.45848 \times 10^{-5} \text{ gm-mole/cm}^3$ 

 $\rho_0 = 1.29149 \times 10^{-3} \text{ gm/cm}^3$ 

 $\rho_0 = 8.06254 \times 10^{-2} \text{ lb/ft}^3$ 

 $\rho_0 = 2.50592 \times 10^{-3} \text{ slugs/ft}^3$ 

### SECTION I

The need for tables of thermodynamic properties of air to high densities arose in the von Karman Facility, of AEDC, in connection with the gradual extension of the range of operation of arc-driven (hotshot) wind tunnels and, more especially, in the design of proposed new wind tunnels and other apparatus. A similar requirement for nitrogen tables was recently met by the present authors in Ref. 1. The general method of generating the air tables given herewith in Appendix III is substantially the same as the one used in constructing the above referenced nitrogen tables.

For the range of moderately high densities, the three most recently issued sets of air tables are those of Humphrey and Neel (Ref. 2). Hilsenrath and Klein (Ref. 3), and Vasiliu (Ref. 4). The tables of Humphrey and Neel cover the temperature range from 90 to 1500 K up to various density limits, the highest being 400 amagats at ambient temperatures. They are a compilation of the tables of Din (Ref. 5) and of Hilsenrath, Beckett, et al. (Ref. 6). The tables of Hilsenrath and Klein represent theoretically calculated effects of dissociation and ionization, as well as second virial corrections. They extend from 1500 to 15,000 K, their upper density limits being 250 amagats at the lower temperatures and 160 amagats at the higher ones. The tables of Vasiliu range from 200 to 6000°K, and from 400°K upwards they represent a first attempt to extrapolate to high densities on a broad scale, in this instance to 630 amagats (log  $\rho$  = 2.8). These tables were based on the earlier 1959 tables of Hilsenrath, Klein, and Woolley (Ref. 7) which do not go beyond 100 amagats and do not include any virial corrections. Vasiliu began with algebraic extrapolation of entries in Ref. 7 to account for the progressive diminution of dissociation, and then added to the entries of Ref. 7 and their extrapolations the increments which were attributable to second and third virial corrections calculated from the Lennard-Jones potential, as set forth by Hirschfelder et al. (Ref. 8). The issuance of these tables was timely and also underscored the growing need for such information at high densities. Prior to their publication, the needs for high-density air data were served in part by the table of Gilmore (Ref. 9) which cites computed thermodynamic properties of air up to 316 amagats (log  $\rho$  = 2.5) at intervals of 1000 deg from 2000 to 10,000 K. Figure 1 (Appendix I) shows the areas covered by the above described tables within the thermodynamic domain from 100 to 6000°K and up to 1000 amagats.

### SECTION () DISCUSSION AND PROCEDURE

In broad outline, the tables given in Appendix III are based on (1) graphical extrapolation of the compressibility factor Z to 1000 amagats at 300 and 400°K, (2) the assumption that the virial corrections of Friedman, as supplied by Hilsenrath, suffice to determine the thermodynamic states to 1000 amagats from 3000 to 6000°K, and (3) the use of a discreetly chosen empirical equation whenever necessary to fill in a gap between 400 and 3000°K. The dimensionless thermal quantities E/RT and S/R are developed by numerical differentiation and integration of a carefully prepared array of values of Z, using the known values of E/RT and S/R at one amagat as constants of integration.

#### 2.1 A USEFUL GRAPHICAL DOMAIN

The compressibility factor of a real gas is often computed by means of the equation

$$Z = 1 + B\rho + C\rho^2 + D\rho^3 + \text{etc.}$$

in which the parameters B, C, D, etc., are the virial coefficients which are assumed to be functions only of the temperature. As usually tabulated in the literature, these parameters are merely coefficients in a finite series expansion in integral powers of the density, as determined from experimental data by a numerical curve fitting procedure. In the range of interest of the present work, the number of virial coefficients required generally decreases as the temperature increases.

Below the Boyle temperature (about 347°K for air) the second virial coefficient B is negative, because the numerical value of Z is less than unity, being approximately 0.3 at the critical point. In theoretical determinations of Z, the coefficient B generally represents interactions between pairs of entities (molecules, atoms, or ions). In like manner, the coefficient C pertains to three-particle interactions, and so on. Above the Boyle temperature, the occasional appearance of negative empirically determined virials is probably fortuitous, it having been found that a change of one percent or less in a given datum point will occasionally change the sign of a higher virial coefficient in a curve fitting procedure. The literature does not appear to disclose any negative theoretical virials above the Boyle temperature, and through the remainder of this section it is assumed that all virials are positive above the Boyle temperature.

For the sake of convenience in notation, the virial equation is written in the form

$$Z = 1 + \Delta Z_2 + \Delta Z_3 + \text{etc.}$$

where the  $\Delta Z$ 's are the contributions to Z of the successive virial coefficients beyond the first. In this equation  $\Delta Z_2$  is equal to  $B\rho$ , so we can write

$$y = \log \Delta Z_2 = \log B - \log \rho$$

a plot of which with respect to  $\log \rho$  is a straight line of unit slope whose intercept on the line y = 0 is equal to  $\log (1/B)$ . In the same way,  $\Delta Z_3 = C\rho^2$  so that

$$y = \log \Delta Z_1 = \log C + 2 \log \rho$$

which is a straight line of slope 2 intersecting the y = 0 axis at the point  $(1/2) \log (1/C)$ . The generalization to the nth virial is obvious.

Before considering the interaction of these straight lines on a logarithmic plot, it is worthwhile briefly to see the case of a bivirial gas in which the effects of dissociation are decreasing with increasing density. On completion of recombination, the bivirial gas is represented by the relation

$$Z - 1 = B\rho$$

and

$$\log (Z - 1) = \log B + \log \rho$$

Figure 2 shows a plot of (Z-1) on a log scale versus  $\log \rho$  for air at 7000°K, the data being taken from Ref. 3. It is shown that the curve joins the bivirial line as the effects of dissociation disappear, showing how easily in many instances the effects of dissociation can be distinguished from the virial effects. However, in the present work it is not necessary to resort to this method, because the tables of Ref. 3 list the quantity  $Z^*$ , which is the value of Z without the virial effects.

The presence of several positive virial lines on the logarithmic plot is illustrated in Fig. 3. Here the straight lines represent the contributions to Z of the second and third virials given by Friedman (Ref. 10) for air at  $3000\,\text{K}$ . In addition, there is also a plot of (Z-1) computed from the corresponding virial equation. It can be seen that the locus of (Z-1) on the log scale eventually converges very slowly on the straight line representing the highest virial contribution, and this is also shown in another way in Section 2.2. It is also worth noting in passing that the locus of (Z-1) can easily be found graphically when positive virial lines

are drawn on logarithmic graph paper. At any given density, (Z - 1) is merely the sum of the  $\Delta Z'$ s read off the graph.

#### 2.2 A GENERALIZATION OF THIS DOMAIN

Inasmuch as the tables given in Appendix III begin at  $300^{\circ}$ K, which is below the Boyle temperature, it is important to examine a generalization of the domain to accommodate numerical values of the compressibility factor less than unity. Such values of Z arise by virtue of negative values of the second virial, and under certain conditions the third may also be negative. When Z is equal to unity,  $\log(Z-1)$  is equal to minus infinity, and when it is less than unity  $\log(Z-1)$  is complex.

This suggests plotting the logarithm of the absolute value of (Z-1), rather than the logarithm of (Z-1) itself. Everything is real in this generalized domain, and the equation for the slope of the curve is unchanged on crossing the singularity. At high densities

$$Z - 1 = B\rho + C\rho^2 + D\rho^3 + etc.$$

and

$$[\partial(Z-1)/\partial\rho]_T = B + 2C\rho^2 + 3D\rho^2 + \text{etc.}$$

and by changing the variables on the left-hand side from  $\rho$  to log  $\rho$  and from (Z-1) to log (Z-1) there follows

$$\begin{bmatrix} \frac{\partial \log (Z-1)}{\partial \log \rho} \end{bmatrix}_{T} = \begin{bmatrix} \frac{B+2C\rho+3D\rho^{2}+\text{etc.}}{B+C\rho+D\rho^{2}+\text{etc.}} \end{bmatrix}$$

On the other hand, at sufficiently low densities and below the Boyle temperature

$$1 - Z = - (B\rho + C\rho^2 + D\rho^3 + etc.)$$

and by differentiating and changing the variables as before

$$\left[\frac{\hat{\sigma} \log (1-Z)}{\hat{\sigma} \log \rho}\right]_{T} = 1 + \rho \left[\frac{C - D\rho + \text{etc.}}{B - C\rho + D\rho^{2} + \text{etc.}}\right]$$

in which the minus signs in the numerator and denominator cancel each other. These two derivatives can be combined in the statement

$$\begin{bmatrix} \frac{\partial \log |Z-1|}{\partial \log \rho} \end{bmatrix}_{T} = 1 - \rho \begin{bmatrix} C - 2D\rho - \text{etc.} \\ B + C\rho + D\rho^{2} + \text{etc.} \end{bmatrix}$$

It is seen by inspection that, as the density is allowed to increase indefinitely, the derivative approaches the exponent of the highest virial contribution.

Figure 4 shows a plot of  $\log |Z-1|$  against  $\log \rho$  for air at 25°C, the points being computed from the array of virials given by Michels et al. (Ref. 11). Also shown are the negative bivirial line and the lines for the positive third and fourth virials. Since the slope of the curve to the left of the singularity does not exceed unity, it follows that only the second virial is negative, the third being positive.

The main purpose of Fig. 4 is to set forth the arm of the curve to the right of the singularity. It rises steeply from minus infinity at the singularity and bends over to the right with negative curvature. If the third virial were the highest, the curve would join the third virial line. But by virtue of the still higher virials, it traverses a point of inflection and its curvature becomes positive. Since the curvatures in this region are small, and because of scatter and rounding-off errors, a fairly long segment of the curve in this region can be approximated by a straight line, especially with an expanded scale for  $\log \rho$ .

Consideration of Fig. 4 also shows why in this study the domain of  $\log (Z - 1)$  was chosen in preference to  $\log Z$ . The domain of Fig. 4 is not only more sensitive to rounding-off errors in the tables, but also shows more clearly the effects of the successive virials.

By differentiating the general gas law,  $Z = P/RT\rho$ , the derivative of log (Z - 1) may also be written in the form

$$\left[\frac{\partial \log (Z-1)}{\partial \log \rho}\right]_{T} = \frac{Z}{Z-1} \left[\left(\frac{\partial \log P}{\partial \log \rho}\right)_{T} - 1\right]$$

As the density and the compressibility factor increase, the ratio Z/(Z-1) decreases slowly as it approaches unity. On the other hand, the isothermal derivative of log P with respect to log  $\rho$  must increase at a fair rate, because of the steadily increasing relative difficulty of compressing a gas at high densities.

#### 2-3 EXTRAPOLATION TO 1000 AMAGATS AT 300 AND 400°K

The application of the loci of  $\log (Z - 1)$  to the isothermal extrapolation of Z to 1000 amagats is shown in Fig. 5 with a plot of data for air at 300°K given in Table 2 of Humphrey and Neel (Ref. 2). The highest points

from log  $\rho$  = 2.6 to 2.707 lie clustered about a straight line. Now, a detailed examination of the air data in Fig. 4 shows that their locus of log (Z - 1) goes through a point of inflection in the vicinity of log  $\rho$  = 2.6. So, it is fair to conclude that the data of Fig. 5 lie beyond their region of negative curvature and that a straight-line extrapolation is conservative. Prolongation of the straight line in Fig. 5 yields a value of Z = 12.32 at log  $\rho$  = 3.0. Using the similarity between the nitrogen data of Ref. 1 and the air data of this report as a guide, extrapolation of the data at 400°K also defines a straight line whose prolongation suggests the value of Z = 11.04 at 1000 amagats.

#### 2.4 THE ISOMETRIC DOMAIN

Beattie and Bridgeman (Ref. 12), Obert (Ref. 13), and other authors observe that the pressure-temperature lines at constant density, the so-called isometrics, of a real gas have negative curvature (except for effects identified with the critical point) and approach linearity at high temperatures. This is illustrated in Fig. 6, showing the air isometric at  $\log \rho = 2.0$  (100 amagats). Below 700°K the data are taken from Ref. 2 and from 1500°K upwards from Ref. 3. The small terminal curvature of this isometric at its high-temperature end is revealed by drawing a straight line from the 1500 to the 6000°K point, noting that its maximum relative deviation from the isometric is of the order of one percent. The fact that the isometric approaches a straight line immediately suggests an empirical equation in the form

$$P = a + bT - c exp (eT)$$

in which the parameters a, b, c, and e are functions of the density. At a given density, the constants a and b are determined by a straight line through the points at 5000 and 6000°K and, in the exponential correction, the constants c and e are determined by the points at 300 and 400°K.

As would be expected, the insufficiency of Friedman's virial corrections at moderately high temperatures increases with density. This can be seen in Fig. 7 which is mainly devoted to the isometric for the case of  $\log \rho = 3.0$ . The solid line at the low-temperature end represents the extrapolated data at 300 and 400 K described in Section 2.3, whereas the solid line from 1000 K upwards is based on the virial corrections of Friedman (Ref. 10). These two parts of the curve obviously cannot be joined without incurring a point of inflection, and this would be thermodynamically inadmissible. The empirical equation for this case joins the two solid-line portions of the curve with the dotted line in Fig. 7. The data for  $\log \rho = 2.8$  are also shown.

#### 2.5 COMPUTATIONAL PROCEDURE

The first step in generating the accompanying tables given in Appendix III was obviously the one of tabulating the numerical values of the compressibility factor Z. This was done at intervals of 100 deg from 300 to 1000 K, then at intervals of 200 deg from 1000 to 3000 K, than at intervals of 200 deg from 1000 to 3000%, and finally at intervals of 500 deg from 3000 to 6000°K. The density range extends from log  $\rho = 0$  (1 amagat) to log  $\rho = 3.0$  (1000 amagats), entries being made at intervals of 0.2 in log  $\rho$ . At all densities from log  $\rho = 1$  (10 amagats) upward, the values of Z were computed by means of the empirical formulas for the isometric pressure, in which the parameters were determined from pressure data at 300 and 400°K in Ref. 2 (extrapolated to 1000 amagats as described in Section 2.3) and from the virial corrections of Ref. 10 at 5000 and 6000°K. This procedure not only took care of the instances at high densities in which the virial corrections of Ref. 10 would have to be augmented to bring the isometrics into thermodynamic conformity with the low-temperature data, but it also smoothed out a few situations at medium and low densities at which the pressures predicted by the virials had to be changed slightly to satisfy the lowtemperature conditions. In only a few instances at the highest temperatures and at the lower densities, it was necessary to add to the values of Z corrections for the effects of dissociation. These small increments were determined from the values of Z\* in Ref. 3.

The input of thermal data to the computing machine consisted of the numerical values of the dimensionless functions E/RT and S/R at log  $\rho = 0$  and at all temperatures at intervals of 100 deg from 300 to 6000°K. These data were taken from Ref. 2 up to 1000°K, then from Ref. 3 to 6000°K. Very little smoothing was required. The computing machine was instructed to compute the pressure from the relation

$$P = ZRT_0$$

and then to integrate the differential equations

$$\begin{split} [\partial (\mathbf{E}/\mathbf{R}\mathbf{T})/\partial (ln\rho)]_{\mathbf{T}} &= -\mathbf{T} \ (\partial \mathbf{Z}/\partial \mathbf{T})_{\rho} \\ [\partial (\mathbf{S}/\mathbf{R})/\partial (ln\rho)]_{\mathbf{T}} &= -\mathbf{T} \ (\partial \mathbf{Z}/\partial \mathbf{T})_{\rho} - \mathbf{Z} \end{split}$$

using the values of E/RT and S/R at log  $\rho$  = 0 as initial values. Finally, the dimensionless enthalpy H/RT followed from the relation

$$H/RT = E/RT + Z$$

For the performance of interpolations and differentiations, the computer program applied the method of spline fit described by Landis and

Nilson (Ref. 14) as applied by Lewis and Neel (Ref. 15). In this method the computer represents a column of entries in terms of a set of local cubics, each of which is determined by two neighboring entries, subject to the condition that the first and second derivatives of two neighboring cubics are continuous at the junction point. The computations were made on an IBM 7074 computer.

Beyond computing the values of Z, no further use was made of the fact that analytical expressions were available for isometrics. For instance, if the pressure is given by the equation

$$P = a + bT - c \exp(eT)$$

where the parameters a, b, c, and e are known functions of density, then

$$\left[\partial (S/R)/\partial (ln\rho)\right]_{T} = -\left(1/R\rho\right)\left[b - ce \exp (et)\right]$$

with a corresponding expression for the isothermal derivative of E/RT, which could be integrated numerically. Inasmuch as the spline fit and its accessories were already available as subroutines for the computer, it was felt that no great benefit would accrue from programming the indicated numerical integrations. Verification of the method for determining the thermal quantities E/RT and S/R is given in Ref. 1. The ability of this method to reproduce a given set of data is excellent, the largest error being 2.5 parts in 10,000.

#### 2.6 INTERCOMPARISONS OF TABLES

Table I (Appendix II) shows spot comparisons of entries for Z, E/RT, and S/R given in the tables of Appendix III (G&B) with the corresponding entries in the tables of Humphrey and Neel (H&N) and Hilsenrath and Klein (H&K). It should also be kept in mind that the sets of entries for the pressure, H/RT, and S/R in Ref. 2 were determined by separate interpolations among entries in the source tables, and the authors of Ref. 2 reported finding internal thermodynamic inconsistencies as great as 0.2 percent. In other respects the entries in Table I speak for themselves.

Although there is no claim to absolute accuracy in the tables of Appendix III, nevertheless it is felt that the extrapolations and interpolations are reasonable from an engineering point of view and that they are thermodynamically consistent among one another.

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### APPENDIX I

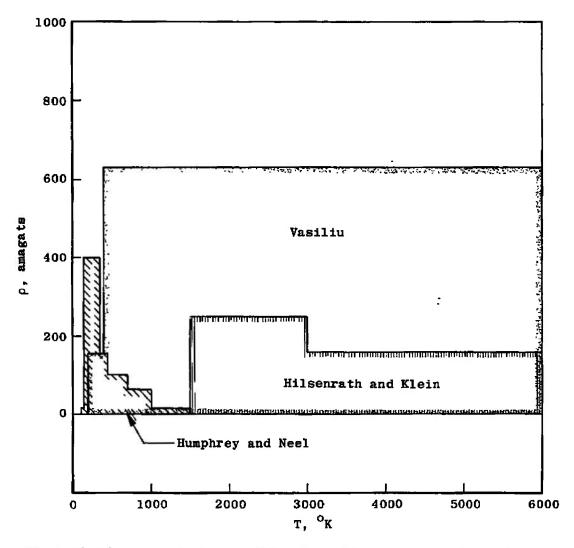


Fig. 1 The Thermodynamic Domain, with Density and Temperature as Variables, Showing Area Covered by Previously Published Tables

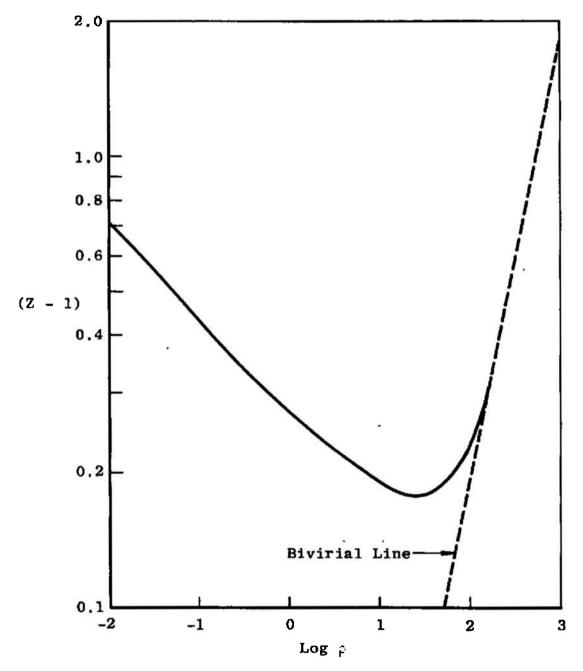


Fig. 2 Plot of (Z-1) for Air at 7000°K

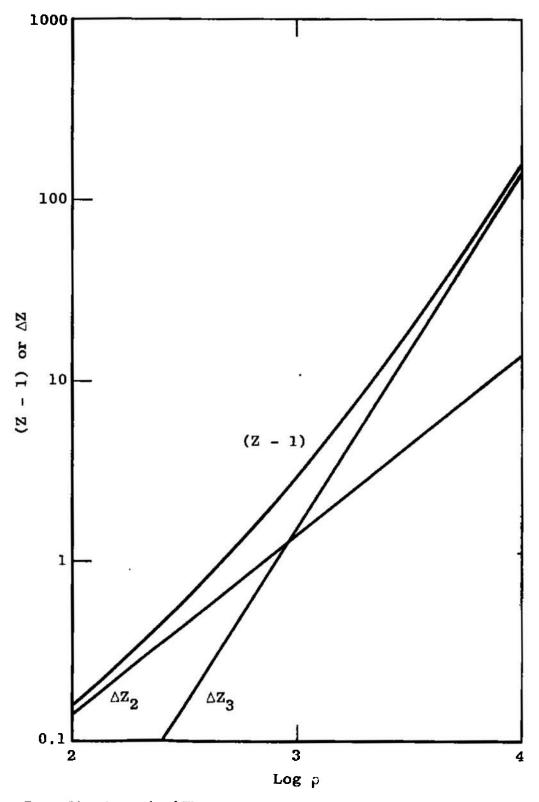


Fig. 3 Plot of Second and Third Virial Lines for Air at 3000°K - Data from Ref. 10

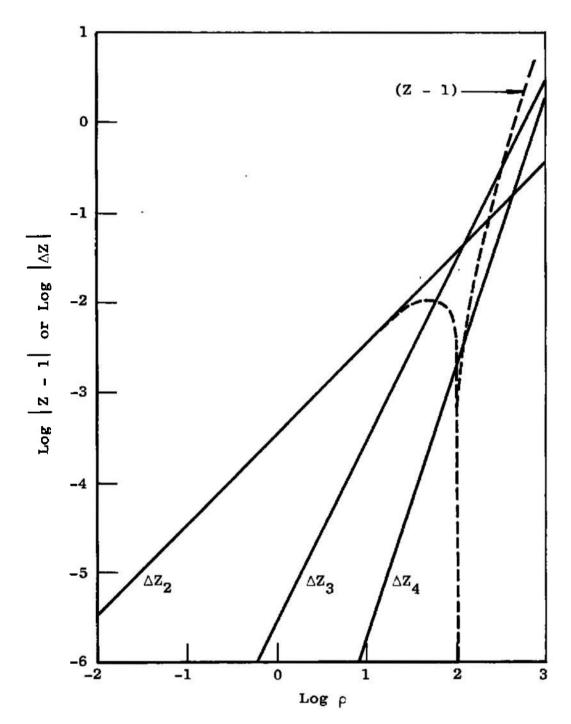


Fig. 4 Plot of Log |Z-1| and Second, Third, and Fourth Virial Lines for Air at  $25^{\circ}C$  — Data from Ref. 11

0

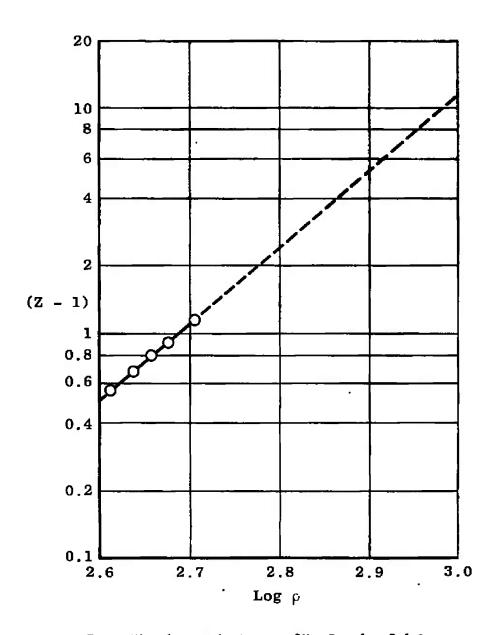


Fig. 5 Plot of (Z - 1) for Air at 300°K - Data from Ref. 2

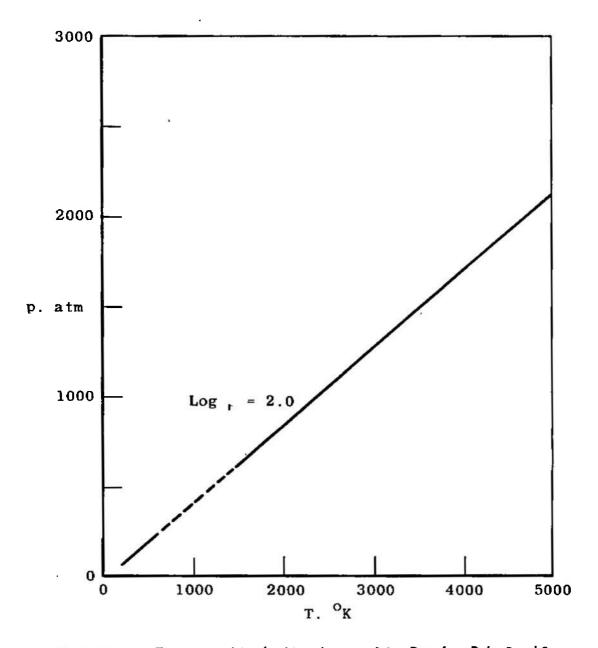


Fig. 6 Pressure-Temperature Line for Air at Log ho = 2.0 - Data from Refs. 2 and 3

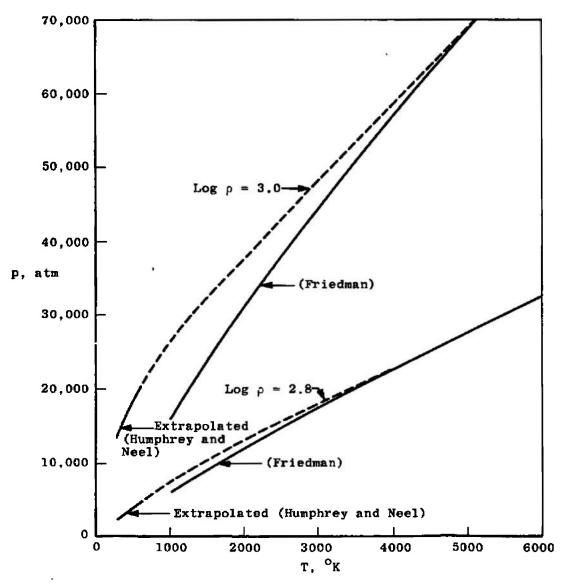


Fig. 7 Pressure-Temperature Lines for Air at Log  $\rho$  = 3.0 and 2.8 as Corrected by Empirical Formula (Sources of Data as Indicated)

APPENDIX II
TABLE

#### APPENDIX II

TABLE I

SPOT COMPARISONS OF ENTRIES IN THE THERMODYNAMIC TABLES GIVEN IN APPENDIX III

(G&B) WITH THE CORRESPONDING ENTRIES IN THE TABLES OF HUMPHREY AND

NEEL (H&N), AND HILSENRATH AND KLEIN (H&K)

Т :	= 300°K		T = 1000°K			
$\log \rho = 1.2$	-		log ρ	= 1.2		
z	E/RT	S/R		Z	E/RT	S/R
G&B .99588 H&N .99588	2.4496 2.4527	21.029 21.031	G&B H&N		2.6375 2.6382	24. 240 24. 235
$\log \rho = 1.4$			log ρ	= 1.4		
G&B .99395 H&N .99395	2.4283 2.4310	20.549 20.552	G&B H&N			23.762 23.764
$\log \rho = 2.4$						İ
G&B 1.1248 H&N 1.1250	1,9700 1,8785	17.767 17.673				
$\log \rho = 2.6$						
G&B 1.5150 H&N 1.5161	1.7315 1.5589	16.941 16.769				
T =	3000°K			T =	6000°K	
$\log \rho = 1.2$			log ρ	= 1.2		
z	E/RT	S/R	i i	Z	E/RT	S/R
G&B 1.02486 H&K 1.02445	3.30183 3.30249	28. 1022 28. 1030		1, 13479 1, 13447	4,70568 4,67497	32, 2194 32, 1889
$\log \rho = 1.8$			log ρ	= 1.8		
G&B 1.09754 H&K 1.09108	3,28731 3,28715			1.16372 1.15861	4.33039 4.30382	30. 2688 30. 2449
$\log \rho = 2.4$			log ρ	= 2.2		
G&B 1.45689 H&K 1.35596	3.30399 3.28891	24.9528 24.9883		1.29973 1.26752	4.14289 4.11482	28.9589 28.9479

## APPENDIX III TABLES OF THERMODYNAMIC PROPERTIES OF AIR

APPENDIX III
TABLES OF THERMODYNAMIC PROPERTIES FOR AIR

			T= 3	00	AIR	
LDG RHD	Z	E/RT	H/RT	S/R	LOG P	P
.00	.99979	2.48670	3.48649	23.82500	-04061	1.09802+00
.20	.99979	2.48619	3.48598	23.36393	-24061	1.74024+00
-40	- 99790	2.48226	3.48016	22.90008	43979	2.75290+00
-60	-99924	2.47692	3.47617	22.43492	.64037	4.36888+00
-80	.99865	2.47180	3.47045	21.96968	-84012	6.92022+00
1.00	.99746	2.46307	3.46053	21.50133	1.03960	1.09547+01
1.20	•99588	2.44955	3.44543	21-02881	1.23891	1-73344+01
1.40	•99395	2.42834	3.42229	20.54941	1.43807	2.74202+01
1.60	•99203	2.39587	3.38790	20.05966	1.63723	4.33741+01
1.80	.99125	2.34465	3.33590	19.55188	1.83689	6.86894+01
2.00	.99672	2.26533	3.26205	19.01523	2.03928	1-09466+02
2.20	1.02330	2.14475	3.16805	18.43093	2.25071	1.78119+02
2-40	1.12481	1.96996	3.09478	17.76658	2.49178	3.10299+02
2.60	1.51500	1.73150	3.24650	16-94060	2.82112	6.62400+02
2.80	3.33517	1.44398	4.77914	15.64243	3.36382	2.31111+03
3.00	12.31588	1.98881	14.30468	13.11151	4.13117	1.35260+04
			T= 40	<b>)</b> 0	AIR	
LDG RHO	Z	E/RT	H/RT	S/R	LOG P	P
.00	1.00040	2.49230	3.49270	24-54600	.16582	1.46494+00
.20	1.00058	2.49155	3.49213	24-08451	.36590	2.32220+00
.40	1.00092	2.48937	3.49029	23.62148	. 56604	3.68163+00
-60	1.00160	2.48633	3.48793	23.15736	.76634	5.83902+00
. 80	1.00240	2.48263	3.48503	22.69222	.96668	9.26147+00
1.00	1.00350	2.47646	3.47996	22-22419	1.16716	1.46947+01
1.20	1.00550	2.46623	3.47173	21-75142	1-36803	2.33362+01
1.40	1.00910	2.44968	3.45878	21.27107	1.56958	3.71176+01
1.60	1.01560	2.42334	3.43894	20.77870	1.77237	5.92066+01
1.80	1.02870	2.38179	3.41049	2C.26675	1.97793	9.50452+01
2.00	1-05450	2.31709	3.37159	19-72314	2.18869	1.54415+02
2.20	1.11270	2.21443	3.32713	19.12324	2-41202	2.58238+02
2-40	1.25206	2.05922	3.31128	18.42876	2.66327	4-60543+02
2.60	1.68498	1.84519	3.53017	17.55888	2.99224	9-82291+02
2.80 3.00	3.45036 11.03911	1.62247 2.23587	5.07283 13.27498	16.24796 13.95167	3.50351 4.20858	3.18794+03 1.61652+04
4 - 1111						

LDG RHD	2	E/RT	H/RT	5/R	LOG P	P
-00	1-00070	2.50590	3.50660	25.10900	.26286	1.83172+00
.20	1.00110	2.50503	3.50613	24.64721	•46303	2.90422+00
- 40	1.00170	2.50405	3.50575	24.18508	-66329	4.60564+00
-60	1.00272	2.50264	3.50536	23.72214	.86373	7.30685+00
. 80	1.00420	2.50007	3.50427	23.25749	1.06437	1.15977+01
1.00	1.00650	2.49587	3.50237	22-79036	1.26537	1.84234+01
1.20	1.01060	2.48898	3.49958	22.31910	1.46713	2.93177+01
1.40	1-01730	2.47764	3.49494	21.84094	1.67000	4.67735+01
1.60	1.02880	2.45939	3.48819	21.35180	1.87488	7.49687+01
1.80	1.04900	2-43075	3.47975	20.84517	2.08333	1.21152+02
2.00	1.08620	2.38623	3.47243	20.30999	2.29846	1.98820+02
2.20	1-16250	2.31888	3.48138	19.72688	2.52795	3.37248+02
2.40	1.32499	2.21572	3-54071	19.05630	2.78477	6.09214+02
2.60	1.77873	2.07175	3.85048	18.21767	3-11266	1.29616+03
2.80	3.47128	1.95994	5.43122	16.98177	3.60304	4.00904+03
3.00	10.07273	2.64012	12.71285	14.89655	4.26570	1.84374+04
			T= 60	10	, AIR	
LOG RHO	Z	E/RT	H/RT	5/R	LOG P	P
.00	1-00090	2.52570	H/RT 3+52660	\$/R 25.58700	LDG P -34213	2.19852+00
.00 .20	1.00090	2.52570 2.52503	H/RT 3.52660 3.52653	\$/R 25.58700 25.12526	LDG P .34213 .54239	2.19852+00 3.48650+00
•00 •20 •40	1.00090 1.00150 1.00220	2.52570 2.52503 2.52392	H/RT 3.52660 3.52653 3.52612	\$/R 25.58700 25.12526 24.66279	LBG P -34213 -54239 -74269	2.19852+00 3.48650+00 5.52955+00
.00 .20 .40 .60	1.00090 1.00150 1.00220 1.00350	2.52570 2.52503 2.52392 2.52240	H/RT 3.52660 3.52653 3.52612 3.52590	\$/R 25.58700 25.12526 24.66279 24.19947	LDG P -34213 -54239 -74269 -94325	2.19852+00 3.48650+00 5.52955+00 8.77506+00
.00 .20 .40 .60	1.00090 1.00150 1.00220 1.00350 1.00550	2.52570 2.52503 2.52392 2.52240 2.52003	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454	LDG P -34213 -54239 -74269 -94325	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01
.00 .20 .40 .60 .80	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690	LDG P -34213 -54239 -74269 -94325 1-14412	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01
.00 .20 .40 .60 .80 1.00	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52391	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535	LDG P -34213 -54239 -74269 -94325 1-14412 1-34545	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01
.00 .20 .40 .60 .80 1.00 1.20	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52391 3.52314	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703	LDG P -34213 -54239 -74269 -94325 1-14412 1-34545 1-54769 1-75144	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260 1.03690	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.48599	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52391 3.52314 3.52289	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82858	LBG P -34213 -54239 -74269 -94325 1-14412 1-34545 1-54769 1-75144	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260 1.03690 1.06250	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.48599 2.46122	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52314 3.52314 3.52289 3.52372	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.31703 21.82858 21.32093	LBG P -34213 -54239 -74269 -94325 1-14412 1-34545 1-54769 1-75144 1-95747	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00090 1.00150 1.00220 1.00350 1.00550 1.00360 1.01380 1.02260 1.03690 1.06250 1.10640	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51014 2.50054 2.48599 2.46122 2.42179	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52314 3.52314 3.52289 3.52372	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82658 21.32093 20.78311	LBG P -34213 -54239 -74269 -94325 1-14412 1-34545 1-54769 1-75144 1-95747 2-16806 2-38565	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02 2.43024+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00090 1.00150 1.00220 1.00350 1.00550 1.01380 1.01380 1.02260 1.03690 1.06250 1.10640 1.19160	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.48599 2.46122 2.42179 2.36677	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52314 3.52314 3.52389 3.52372 3.52820 3.55837	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82658 21.32093 20.78311 20.20120	LBG P -34213 -54239 -74269 -94325 1-14412 1-34545 1-54769 1-75144 1-95747 2-16806 2-38565 2-61786	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02 2.43024+02 4.14820+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260 1.03690 1.06250 1.10640 1.19160	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.46122 2.42179 2.36677 2.28275	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52391 3.52391 3.52289 3.52372 3.52820 3.55837 3.65369	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82658 21.32093 20.78311 20.20120	LDG P -34213 -54239 -74269 -94325 1.14412 1.34545 1.54769 1.75144 1.95747 2.16806 2.38565 2.61786	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02 2.43024+02 4.14820+02 7.56397+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260 1.03690 1.06250 1.10640 1.19160 1.37094	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.4859 2.4852 2.42179 2.36677 2.28275 2.16480	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52314 3.52389 3.52289 3.52820 3.55837 3.65369 3.99965	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82658 21.32093 20.78311 20.20120 19.53266 18.69582	LBG P -34213 -54239 -74269 -94325 1.14412 1.34545 1.54769 1.75144 1.95747 2.16806 2.38565 2.61786 2.87875 3.20533	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02 2.43024+02 4.14820+02 7.56397+02 1.60446+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40	1.00090 1.00150 1.00220 1.00350 1.00550 1.00860 1.01380 1.02260 1.03690 1.06250 1.10640 1.19160	2.52570 2.52503 2.52392 2.52240 2.52003 2.51610 2.51011 2.50054 2.46122 2.42179 2.36677 2.28275	H/RT 3.52660 3.52653 3.52612 3.52590 3.52553 3.52470 3.52391 3.52391 3.52289 3.52372 3.52820 3.55837 3.65369	\$/R 25.58700 25.12526 24.66279 24.19947 23.73454 23.26690 22.79535 22.31703 21.82658 21.32093 20.78311 20.20120	LDG P -34213 -54239 -74269 -94325 1.14412 1.34545 1.54769 1.75144 1.95747 2.16806 2.38565 2.61786	2.19852+00 3.48650+00 5.52955+00 8.77506+00 1.39354+01 2.21539+01 3.52931+01 5.64209+01 9.06713+01 1.47252+02 2.43024+02 4.14820+02 7.56397+02

500

AIR

			T= 70	00	AIR	
LOG RHO	ı	E/RT	H/RT	S/R	LOG P	P
•00	1.00110	2.55110	3.55220	26.00400	-40916	2.56543+00
-20	1.00170	2.55073	3.55243	25.54248	-60942	4.06837+00
•40	1.00260	2.55003	3.55263	25.08029	.80981	6.45372+00
.60	1-00400	2.54883	3.55283	24-61708	1.01041	1.02426+01
.80	1.00640	2.54707	3.55347	24.15244	1.21145	1.62723+01
1.00	1.01000	2.54408	3.55408	23.68523	1.41300	2.58821+01
1-20	1.01610	2.53902	3.55512	23.21377	1.61562	4.12686+01
1.40	1.02610	2 • 5.31 40	3.55750	22.73609	1.81987	6.60496+01
1.60	1.04250	2.51830	3.56080	22.24703	2.02676	1.06356+02
1.80	1.07150	2.50218	3.57368	21.74473	2.23867	1.73249+02
2.00	1.12050	2.47545	3.59595	21.21434	2.45809	2.87138+02
2.20	1-21230	2.42687	3.63917	20.63096	2.69229	4.92368+02
2.40	1.40161	2.35742	3.75903	19.96523	2.95531	9.02215+02
2.60	1.86984	2.26864	4.13848	19-14176	3.28049	1.90761+03
2.80	3.41086	2.25388	5.66475	17.98110	3.74155	5.51506+03
3.00	8-66138	3.01636	11.67774	16.22213	4.34627	2.2195B+04
			T= 80	00	AIR	
			1- 0(	30	MIK	
LOG RHD	2	E/RT	HŹRT	S/R	LOG P	P
-00	1.00120	2.58050	3.58170	26.37300	.46719	2.93218+00
-20	1.00180	2.58024	3.58204	25.91155	.66745	4.64997+00
-40	1.00286	2.57963	3.58249	25.44937	.86791	7.37751+00
-60	1.00440	2.57860	3.58300	24.98617	1.06858	1.17106+01
-80	1.00700	2.57698	3.58398	24.52146	1.26970	1.86080+01
1.00	1.01113	2.57403	3.58516	24.05390	1.47148	2.96128+01
1.20	1.01780	2.56932	3.58713	23.58213	1.67434	4.72433+01
1.40	1.02880	2.56237	3.59117	23.10416	1.87900	7.56833+01
1.60	1-04700	2.55078	3.59778	22.61488	2.08662	1.22073+02
1.60	1.07550	2.53344	3.60894	22.10949	2-29828	1.98738+02
2.00	1.13080	2.50716	3.63796	21-57645	2.52006	3.31177+02
2.20	1.22840	2.46503	3.69343	20-99336	2.75601	5.70177+02
2.40	1.42286	2-40651	3.82936	20.32997	3.01983	1.04672+03
2.60	1.89193	2-33711	4.22904	19.51531	3.34358	2.20587+03
2.80 3.00	3.36192	2.35478	5.71670 11.25900	18.38729	3.79326	6.21241+03
	8-12493	3.13407		16.74815	4.37649	2.37952+04

			T= 91	00	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LDG P	P
.00	1.00120	2.61220	3.61340	26.71500	.51835	3.29875+00
.20	1-00192	2-61199	3.61391	26.25357	.71866	5-23191+00
-40	1.00305	2.61151	3.61456	25.79145	.91915	8.30137+00
.60	1.00470	2.61064	3.61534	25.32831	1.11986	1-31783+01
. BQ	1.00756	2.60903	3.61659	24.86341	1.32110	2.09459+01
1.00	1.01205	2.60646	3.61851	24.39588	1.52303	3.33449+01
1-20	1.01920	2.60235	- 3.62155	23.92420	1.72608	5.32206+01
1.40	1.03090	2.59570	3.62660	23.44571	1.93104	8.53179+01
1.60	1.05040	2.58643	3.63683	22.95759	2.13918	1.37778+02
1.80	1.08300	2.56643	3.64943	22.44701	2.35245	2.25139+02
2.00	1.13900	2.53683	3.67583	21.90699	2.57435	3.75275+02
2.20	1.24050	2-49889	3.73939	21.32352	2.81142	6.47769+02
2-40	1.43791	2.44912	3.88703	20.66256	3.07556	1.19004+03
2.60	1.90568	2.39643	4.30211	19.85743	3.39788	2-49965+03
2-80	3.30940	2.44041	5.74980	18.75937	3.83757	6-87971+03
3.00	7.66795	3.22533	10.89328	17.21811	4-40250	2.52639+04
			T= 10(	00	AlR	
LOG RHD	2	E/RT	H/RT	S/R	LOG P	P
-00	1.00120	2.64540	3.64660	27-03000	-56410	3.66522+00
-20	1.00198	2.64522	3-64720	26.56858	.76444	5-81353+00
-40	1.00315	2-64500	3-64815	26.10668	.96495	9.22465+00
-60	1.00500	2.64417	3.64917	25.64349	1.16575	1.46470+01
.80	1.00795	2.64277	3.65072	25.17865	1.36702	2.32820+01
1.00	1-01269	2-64089	3.6535B	24.71158	1.56906	3.70732+01
1.20	1.02030	2.63753	3.65783	24.24025	1.77231	5.91984+01
1.40	1.03267	2.63185	3.66452	23.76209	1.97754	9.49598+01
1-60	1-05301	2.62279	3.67580	23-27318	2.18602	1.53469+02
1.80	1.08711	2.61186	3.69897	22.77015	2.39986	2.51108+02
2.00	1.14586	2.59260	3.73846	22.23801	2-62271	4.19479+02
2.20	1.25075	2.55687	3.80762	21.65275	2.86075	7.25688+02
2.40	1.44871	2.51420	3.96291	20.99398	3.12457	1.33220+03
2-60	1.91381	2-47461	4.38842	20.19712	3.44548	2.78920+03
2.80	3.25619	2.53960	5.79580	15.12583	3.87629	7.52125+03 2.66312+04
3.00	7.27463	3.31966	10.59429	17.66222	4.42539	Z.00312+U4

O

			T= 110	0	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
.00	1.00130	2.67890	3.68020	27.32500	.60554	4.03218+00
.20	1.00203	2.67863	3.68066	26.86347	.80585	6.39514+00
.40	1.00323	2.67835	3.68158	26.40148	1.0063B	1-01480+01
.60	1.00523	2.67767	3-68290	25.93838	1.20724	1.61154+01
. BO	1.00824	2.67656	3-68479	25.47370	1.40854	2.56177+01
1.00	1.01316	2.67494	3.68810	25.00673	1.61065	4.07990+01
1.20	1.02111	2.67221	3.69333	24.53574	1.81405	6.51703+01
1.40	1.03400	2.66775	3.70175	24.05831	2.01950	1.04592+02
1.60	1.05497	2.66071	3.71567	23.57065	2.22821	1.69126+02
1.80	1.08959	2.65110	3.74069	23.06796	2.44224	2.76847+02
2.00	1.15094	2.63529	3.78623	22.53760	2.66603	4.63479+02
2.20	1.25839	2-60835	3.86674	21-95813	2.90479	8.03138+02
2-40	1.45652	2.57521	4.03173	21.30528	3.16829	1.47330+03
2.60	1.91805	2-54628	4.46434	20.51581	3-48784	3.07496+03
2.80	3.20399	2.62836	5-83235	19.46863	3.91067	8-14085+03
3.00	6.93337	3.39779	10.33116	18.06826	4.44592	2-79203+04
			T= 120	00	AIR	
LOG RHO	z	E/RT	H/RT	S/R	LOG P	P
.00	1.00130	2.71210	3.71340	27-58800	-64333	4.39876+00
-20	1-00208	2.71189	3.71397	27-12651	.84366	6.97686+00
.40	1.00331	2.71156	3.71486	26-66445	1.04420	1.10713+01
- 60	1.00538	2.71104	3.71642	26.20144	1.24510	1.75833+01
. 80	1.00846	2.71019	3.71865	25.73694	1.44642	2.79525+01
1.00	1.01351	2.70883	3.72235	25.27011	1.64859	4.45236+01
1.20	1.02169	2.70672	3.72841	24.79952	1-85208	7.11345+01
1-40	1.03492	2.70341	3.73832	24.32290	2.05767	1.14201+02
1-60	1-05637	2-69824	3.75460	23.83658	2.26658	1.84748+02
1.80	1.09163	2-69005	3.78168	23.33454	2-48084	3-02580+02
2-00	1.15436	2.67764	3.83200	22.80634	2.70511	5.07119+02
2.20	1.26348	2-65908	3.92257	22.23329	2.94433	8.79691+02
2.40		7 6 7 6 6 6	4.09672	21.58663	3.20773	1.61336+03
	1.46208	2.63464				
2.60	1.91946	2.61465	4.53411	20-80398	3-52594	3.35691+03
2.60 2.80 3.00						

1			,		100	
LOG RHD	2	E/RT	H/RT .	5/R	LDG P	P
-00	1.00130	2.74510	3.74640	27.82800	.67809	4-76530+00
-20	1.00212	2.74498	3.74710	27.36659	.87845	7.55875+00
-40	1.00338	2.74462	3.74800	26.90447	L-07899	1.19947+01
-60	1.00547	2.74423	3.74971	26.44156	1.27990	1.90502+01
.80	1.00863	2.74361	3.75224	25.97723	1.48126	3.02873+01
1.00	1-01377	2.74251	3.75629	25.51055	1.68347	4-82470+01
1.20	1.02208	2.74093	3.76301	25.04034	1.88701	7.70921+01
1.40	1.03552	2.73858	3.77410	24.56447	2.09268	1.23788+02
1.60	1.05734	2.73498	3.79232	24.07937	2.30174	2.00327+02
1.80	1.09327	2.72820	3.82147	23.57814	2.51625	3.28284+02
2.00	1.15651	2.71883	3.87534	23.05211	2.74068	5.50402+02
2.20	1.26659	2-70734	3.97393	22.48493	2.98016	9.55344+02
2.40	1.46601	2.69023	4.15624	21.84394	3.24366	1.75251+03
2.60	1.91890	2.67771	4.59660	21-06746	3.56058	3.63563+03
2.80	3.10557	2.78432	5.88989	20.06068	3.96967	9-32545+03
3.00	6.37298	3.52099	9.89397	18.75360	4.48187	3.03298+04
						-344-14
			T= 140	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
-00	1.00130	2.77760	H/RT 3.77890	S/R 28-06400		P 5.13192+00
•00 •20	1.00130	2.77760 2.77741	H/RT 3.77890 3.77958	S/R 28-06400 27-60251	LOG P	
•00 •20 •40	1.00130 1.00217 1.00344	2.77760 2.77741 2.77708	H/RT 3.77890 3.77958 3.78052	S/R 28.06400 27.60251 27.14040	LOG P .71028	5.13192+00
•00 •20 •40 •60	1.00130 1.00217 1.00344 1.00553	2.77760 2.77741 2.77708 2.77679	H/RT 3.77890 3.77958 3.78052 3.78232	S/R 28.06400 27.60251 27.14040 26.67756	LOG P .71028 .91065 1.11120 1.31210	5.13192+00 8.14048+00 1.29181+01 2.05163+01
•00 •20 •40 •60 •80	1.00130 1.00217 1.00344 1.00553 1.00876	2.77760 2.77741 2.77708 2.77679 2.77634	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510	S/R 28.06400 27.60251 27.14040 26.67756 26.21336	LOG P .71028 .91065 1.11120 1.31210 1.51350	5.13192+00 8.14048+00 1.29181+01
.00 .20 .40 .60 .80	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683	LOG P .71028 .91065 1.11120 1.31210 1.51350 1.71573	5.13192+00 8.14048+00 1.29181+01 2.05163+01
.00 .20 .40 .60 .80 1.00	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77427	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.79662	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691	LOG P .71028 .91065 1.11120 1.31210 1.51350 1.71573 1.91931	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01
.00 .20 .40 .60 .80 1.00 1.20	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77427 2.77261	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.79662 3.80850	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77427 2.77261 2.77010	H/RT 3.77890 3.77958 3.78052 3.78523 3.78510 3.78942 3.79662 3.80850 3.82810	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157 24.31735	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503 2.33419	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.09455	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77427 2.77261 2.77010 2.76461	H/RT 3.77890 3.77958 3.78052 3.78530 3.78530 3.78942 3.79662 3.80850 3.82610	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157 24.31735 23.81695	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503 2.33419 2.54895	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.09455 1.15779	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.775461 2.77010 2.76461 2.75762	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78540 3.79662 3.80850 3.82810 3.85916	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157 24.31735 23.81695 23.29270	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503 2.33419	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.09455 1.15779 1.26833	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.777427 2.77261 2.77010 2.76461 2.75762 2.75096	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.9462 3.80850 3.82810 3.85916 3.91541 4.01929	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27689 24.80157 24.31735 23.81695 23.29270 22.72969	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503 2.33419 2.54895	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.05799 1.09455 1.15779 1.26833	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77547 2.77261 2.77010 2.76461 2.75762 2.75096 2.73952	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.78962 3.80850 3.82810 3.85916 3.91541 4.01929 4.20821	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157 24.31735 23.81695 23.29270	LOG P •71028 •91065 1•11120 1•31210 1•51350 1•71573 1•91931 2•12503 2•33419 2•54895 2•77334	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02 5.93390+02
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.05799 1.09455 1.15779 1.26833 1.46870	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77547 2.77427 2.77261 2.77010 2.76461 2.75762 2.75096 2.73952 2.73378	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.80850 3.82810 3.85916 3.91541 4.01929 4.20821 4.65065	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27689 24.80157 24.31735 23.81695 23.29270 22.72969	LOG P •71028 •91065 1•11120 1•31210 1•51350 1•71573 1•91931 2•12503 2•33419 2•54895 2•77334 3•01294	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02 5.93390+02 1.03024+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 2.00 2.20 2.40 2.60 2.80	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.05799 1.09455 1.15779 1.26833 1.46870 1.91687 3.06009	2.77760 2.77741 2.77708 2.77639 2.77634 2.77546 2.77427 2.77261 2.77010 2.76461 2.75762 2.75096 2.73952 2.73378 2.84904	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.99650 3.85810 3.85810 3.85916 3.91541 4.01929 4.20821 4.65065 5.90913	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27691 24.80157 24.81735 23.81695 23.29270 22.72969 22.09332 21.32294 20.33305	LOG P •71028 •91065 1.11120 1.31210 1.51350 1.71573 1.91931 2.12503 2.33419 2.54895 2.77334 3.01294 3.27664	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02 5.93390+02 1.03024+03 1.89078+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.00130 1.00217 1.00344 1.00553 1.00876 1.01396 1.02234 1.03590 1.05799 1.05799 1.09455 1.15779 1.26833 1.46870	2.77760 2.77741 2.77708 2.77679 2.77634 2.77546 2.77547 2.77427 2.77261 2.77010 2.76461 2.75762 2.75096 2.73952 2.73378	H/RT 3.77890 3.77958 3.78052 3.78232 3.78510 3.78942 3.80850 3.82810 3.85916 3.91541 4.01929 4.20821 4.65065	S/R 28.06400 27.60251 27.14040 26.67756 26.21336 25.74683 25.27683 24.80157 24.8157 24.8157 24.31735 23.29270 22.72969 22.09332 21.32294	LOG P •71028 •91065 1•11120 1•31210 1•51350 1•71573 1•91931 2•12503 2•33419 2•54895 2•77334 3•01294 3•27664 3•59230	5.13192+00 8.14048+00 1.29181+01 2.05163+01 3.26212+01 5.19673+01 8.30443+01 1.33361+02 2.15869+02 3.53957+02 5.93390+02 1.03024+03 1.89078+03 3.91111+03

T= 1300

AIR

			T= 150	00	AIR	
LOG RHO	2	E/RT	H/RT	5/R	LOG P	P
-00	1.00140	2.80940	3.81080	28.29970	.74028	5.49895+00
-20	1.00220	2.80913	3.81133	27.83811	-94063	8.72228+00
.40	1.00349	2.80888	3.61237	27.37606	1.14119	1.38417+01
-60	1.00556	2.80864	3.81420	26.91325	1.34208	2.19826+01
. 80	1-00885	2.80828	3.81712	26-44911	1.54350	3-49543+01
1.00	1-01410	2.80756	3-82166	25.98269	1.74576	5.56878+01
1.20	1.02253	2.80658	3.82911	25.51292	1.94935	8.89918+01
1.40	1.03616	2.80521	3.84137	25.03776	2.15510	1-42922+02
1.50	1.05846	2.80315	3.86161	24.55382	2.36435	2.31393+02
1.80	1.09553	2.79872	3.89425	24.05415	2.57930	3.79577+02
2.00	1.15859	2.79319	3.95178	23.53094	2.80360	6.36209+02
2.20	1.26933	2-78826	4.05759	22.96927	3.04325	1.10471+03
2.40	1-47043	2.78029	4.25072	22.33572	3.30712	2-02824+03
2.60	1.91378	2.78075	4.69453	21.57136	3.62157	4.18379+03
2.80	3.01722	2.90269	5.91991	20.59633	4.01928	1.04539+04
3.00	5.93513	3.59900	9-53413	19.35155	4.51310	3-25912+04
			T= 160	00	AIR	
LOG RHO	_					
	Z	E/RT	H/RT	S/R	LOG P	p
.00	1.00140	E/RT 2.84178	H/RT 3.84318	S/R 28.51410	LOG P -76831	р 5.86557+00
.00 .20	_		H/RT 3.84318 3.84382	S/R 28.51410 28.05258	LOG P .76831 .96867	5.86557+00
	1-00140	2.84178	3.84318	28.51410	.76831	
-20	1.00140	2.84178	3.84318 3.84382	28.51410 28.05258	.76831 .96867	5.86557+00 9.30401+00
.20 .40 .60 .80	1.00140 1.00222 1.00353 1.00559 1.00892	2.84178 2.84160 2.84142	3.84318 3.84382 3.84494	28.51410 28.05258 27.59059	.76831 .96867 1.16923	5.86557+00 9.30401+00 1.47649+01
.20 .40 .60 .80 1.00	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028	3.84318 3.84382 3.84494 3.84679	28.51410 28.05258 27.59059 27.12779	.76831 .96867 1.16923 1.37012	5.86557+00 9.30401+00 1.47649+01 2.34488+01
.20 .40 .60 .80 1.00	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941	3.84318 3.84382 3.84494 3.84679 3.84979 3.85449 3.86209	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759	.76831 .96867 1.16923 1.37012 1.57156	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01
.20 .40 .60 .80 1.00 1.20	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83811	3.84318 3.84382 3.84494 3.84679 3.84979 3.85449 3.86209 3.87449	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732	.76831 .96867 1.16923 1.37012 1.57156 1.77383	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01
.20 .40 .60 .80 1.00 1.20 1.40	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83811 2.83613	3.84318 3.84382 3.84494 3.84679 3.84979 3.85449 3.86209 3.87449 3.89497	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.76844	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01
.20 .40 .60 .80 1.00 1.20 1.40 1.60	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.09624	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83613 2.83613	3.84318 3.84382 3.84494 3.84679 3.84979 3.85449 3.86209 3.87449 3.89497 3.92886	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.76844 24.26942	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02
.20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.09624 1.15926	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83611 2.83613 2.83262 2.82799	3.84318 3.84382 3.84494 3.84679 3.84979 3.85449 3.86209 3.87449 3.89497 3.92886 3.98725	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.76844 24.26942 23.74678	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761 2.83188	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02 6.79016+02
.20 .40 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.09624 1.15926	2.84178 2.84160 2.84142 2.84120 2.84027 2.84028 2.83941 2.83613 2.83613 2.83262 2.82799 2.82310	3.84318 3.84382 3.84494 3.84679 3.85449 3.85449 3.86209 3.87449 3.89497 3.92886 3.98725 4.09321	28.51410 28.05258 27.59059 27.12779 26.66366 26.19739 25.72759 25.25243 24.26944 23.74678 23.18484	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761 2.83188 3.07155	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02 6.79016+02 1.17910+03
.20 .40 .60 .80 1.00 1.20 1.40 1.60 2.00 2.20	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.09624 1.15926 1.27012	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83613 2.83613 2.83262 2.82799 2.82310 2.81733	3.84318 3.84382 3.84494 3.84679 3.85449 3.85449 3.87449 3.874497 3.98725 4.09321 4.28874	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.72644 24.26942 23.74678 23.18484 22.55304	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761 2.83188 3.07155 3.33544	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02 6.79016+02 1.17910+03 2.16491+03
.20 .40 .60 .80 1.00 1.20 1.40 1.60 2.00 2.20 2.40 2.60	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.05884 1.15926 1.27012 1.47141	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.839811 2.83613 2.8362 2.82799 2.82310 2.81733 2.82341	3.84318 3.84382 3.84494 3.84679 3.85449 3.85449 3.87449 3.87449 3.92886 3.928725 4.09321 4.28874	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.76844 24.26942 23.74678 23.18484 22.55304 21.79453	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761 2.83188 3.07155 3.33544 3.64871	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02 6.79016+02 1.17910+03 2.16491+03 4.45359+03
.20 .40 .60 .80 1.00 1.20 1.40 1.60 2.00 2.20	1.00140 1.00222 1.00353 1.00559 1.00892 1.01421 1.02268 1.03639 1.05884 1.09624 1.15926 1.27012	2.84178 2.84160 2.84142 2.84120 2.84087 2.84028 2.83941 2.83613 2.83613 2.83262 2.82799 2.82310 2.81733	3.84318 3.84382 3.84494 3.84679 3.85449 3.85449 3.87449 3.874497 3.98725 4.09321 4.28874	28.51410 28.05258 27.59059 27.12779 26.66366 26.19732 25.72759 25.25243 24.72644 24.26942 23.74678 23.18484 22.55304	.76831 .96867 1.16923 1.37012 1.57156 1.77383 1.97744 2.18322 2.39253 2.60761 2.83188 3.07155 3.33544	5.86557+00 9.30401+00 1.47649+01 2.34488+01 3.72872+01 5.94060+01 9.49380+01 1.52483+02 2.46905+02 4.05145+02 6.79016+02 1.17910+03 2.16491+03

			T= 17	00	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	•
-00	1-00141	2.87521	3.87662	28.71910	.79464	P
.20	1.00224	2.87514	3.87738	28.25768	.99500	6-23218+00
-40	1-00355	2.87500	3-87855	27.79572	1.19557	9.88553+00
.60	1.00562	2.87479	3.88042	27.33292	1.39647	1.56881+01 2.49155+01
-80	1-00898	2.87449	3.88347	26.86880	1.59791	3.96196+01
1.00	1.01430	2.87402	3.88831	26.40255	1.80020	6.31248+01
1-20	1.02282	2.87325	3.89607	25.93287	2.00383	1.00886+02
1.40	1.03659	2-87205	3-90864	25.45774	2.20964	1.62047+02
1.60	1.05915	2.87021	3.92937	24.97377	2.41899	2.62416+02
1.80	1-09674	2.86755	3-96429	24-47542	2-63414	4.30665+02
2.00	1.15985	2.86383	4.02368	23.95343	2.85843	7.21822+02
2.20	1.27078	2.85931	4-13008	23-39157	3-09810	1.25343+03
2.40	1.47182	2.85565	4.32747	22.76160	3.36189	2.30086+03
2-60	1.90545	2.86662	4.77207	22.00849	3.67403	4.72096+03
2.80	2.93915	2.99761	5.93676	21.05837	4.06225	1.15412+04
3.00	5-58615	3.65110	9.23725	19.85531	4.54114	3-47648+04
		•	T= 180	00	AIR	
100 500	_				~~~	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
-00	1.00142	2.90517	3.90659	28.91610	.81947	6.59888+00
•20 •40	1.00225	2.90508	3.90734	28.45467	1.01983	1-04672+01
.60	1-00357	2.90496	3-90853	27.99271	1-22040	1.66112+01
.80	1-00566	2.90475	3-91040	27-52990	1.42130	2.63815+01
1.00	1.00902	2.90446	3.91348	27.06578	1.62275	4-19517+01
1.20	1-01436 1-02293	2.90408	3.91844	26.59959	1.82505	6.68421+01
1-40		2.90342	3.92635	26.1299B	2.02870	1.06832+02
1.60	1.03676 1.05941	2.90236	3.93912	25-65491	2.23453	1.71605+02
1.80	1.09706	2-90072	3.96013	25.17105	2.44392	2.77920+02
2.00	1.09/00	2-89880	3.99586	24.67331	2-65909	4-56131+02
2.20	1.16034 1.27128	2.89598	4-05632	24.15203	2.88344	7-64610+02
2.40	1.47177	2-89218	4.16346	23.59066	3-12310	1.32770+03
2.60	1.90060	2.89064	4-36240	22.96265	3.38669	2-43607+03
2.80	2.90374	2.90591 3.03982	4-80651	22-21459	3.69775	4.98597+03
3.00	5.43750	3.67181	5.94357	21.27498	4.08181	1.20729+04
2100	~ • TJ ( )U	3.0(191	9-10931	20.08715	4-55426	3.58311+04

			T= 190	00	AIR	
LOG RHD	Z	E/RT	H/RT	S/R	LOG P	P
•00	1.00144	2.93725	3.93869	25-10600	.84296	6-96562+00
-20	1.00227	2.93707	3.93933	28.64446	1.04332	1.10489+01
•40	1.00359	2.93691	3.94050	28.18247	1-24389	1.75344+01
.60	1.00569	2-93668	3.94237	27.71962	1.44480	2.78484+01
.80	1.00905	2.93641	3.94546	27-25550	1.64625	4.42843+01
1.00	1-01442	2.93608	3.95050	26.78935	1.84855	7.05586+01
1.20	1.02302	2.93553	3.95855	26.31981	2.05222	1.12777+02
1.40	1.03691	2.93463	3.97153	25.84485	2.25808	1.81167+02
1.60	1.05961	2.93326	3.99286	25.36118	2.46748	2.93413+02
1.80	1.09726	2.93194	4.02920	24.86396	2.68265	4.81560+02
2.00	1.16072	2.92998	4.09069	24.34341	2.90706	8.07347+02
2.20	1.27161	2.92730	4.19890	23.78297	3.14669	1.40181+03
2.40	1.47135	2.92789	4.39924	23.15707	3.41005	2.57069+03
2.60	1.89547	2.94692	4.84238	22.41370	3.72005	5.24868+03
2.80	2.87060	3.08292	5.95352	21.48348	4.10031	1.25982+04
3.00	5.30305	3.69371	8.99676	20-30805	4.56686	3.68859+04
	•		T= 200	00	AIR	
	_		4B =	6.15	100.0	•
LOG RHO	Z 1.00147	E/RT 2.96972	H/RT 3.97119	S/R 29.28970	LOG P •86525	P 7.33247+00
•00 •20	1.00147	2.96941	3.97170	28.82802	1.06561	1.16308+01
.40	1.00229	2.96917	3.97278	28.36593	1.26618	1.84578+01
.60	1.00572	2.96890	3.97462	27.90304	1.46709	2.93150+01
.80	1.00908	2.96862	3.97770	27.43889	1-66854	4.66165+01
1.00	1.01446					
1.20		7.04837	3.GR278	フム_ ウフフフち	1.87085	[
		2.96832	3.98278	26.97275 24.50329	1.87085	7.42763+01
1,40	1-02309	2.96786	3-99095	26.50329	2-07453	1.18722+02
1.40	1.02309 1.03702	2.96786 2.96716	3.99095 4.00418	26.50329 26.02848	2.07453 2.28040	1.18722+02 1.90722+02
1.60	1-02309 1-03702 1-05975	2.96786 2.96716 2.96613	3.99095 4.00418 4.02588	26.50329 26.02848 25.54509	2.07453 2.28040 2.48982	1.18722+02 1.90722+02 3.08901+02
1.60 1.80	1.02309 1.03702	2.96786 2.96716	3.99095 4.00418	26.50329 26.02848	2.07453 2.28040	1.18722+02 1.90722+02
1.60 1.80 2.00	1.02309 1.03702 1.05975 1.09737	2.96786 2.96716 2.96613 2.96524	3.99095 4.00418 4.02588 4.06261	26.50329 26.02848 25.54509 25.04824	2.07453 2.28040 2.48982 2.70497	1.18722+02 1.90722+02 3.08901+02 5.06956+02
1.60 1.80	1.02309 1.03702 1.05975 1.09737 1.16096	2.96786 2.96716 2.96613 2.96524 2.96406	3.99095 4.00418 4.02588 4.06261 4.12502	26.50329 26.02848 25.54509 25.04824 24.52840	2.07453 2.28040 2.48982 2.70497 2.92943	1.18722+02 1.90722+02 3.08901+02 5.06956+02 8.50022+02
1.60 1.80 2.00 2.20	1.02309 1.03702 1.05975 1.09737 1.16096 1.27173	2.96786 2.96716 2.96613 2.96524 2.96406 2.96293	3.99095 4.00418 4.02588 4.06261 4.12502 4.23466	26.50329 26.02848 25.54509 25.04824 24.52840 23.96941	2.07453 2.28040 2.48982 2.70497 2.92943 3.16901	1.18722+02 1.90722+02 3.08901+02 5.06956+02 8.50022+02 1.47574+03
1.60 1.80 2.00 2.20 2.40	1-02309 1-03702 1-05975 1-09737 1-16096 1-27173	2.96786 2.96716 2.96613 2.96524 2.96406 2.96293 2.96573	3.99095 4.00418 4.02588 4.06261 4.12502 4.23466 4.43639	26.50329 26.02848 25.54509 25.04824 24.52840 23.96941 23.34580	2.07453 2.28040 2.48982 2.70497 2.92943 3.16901 3.43212	1.18722+02 1.90722+02 3.08901+02 5.06956+02 8.50022+02 1.47574+03 2.70471+03
1.60 1.80 2.00 2.20 2.40 2.60	1.02309 1.03702 1.05975 1.09737 1.16096 1.27173 1.47066 1.89014	2.96786 2.96716 2.96613 2.96524 2.96406 2.96293 2.96573 2.98804	3.99095 4.00418 4.02588 4.06261 4.12502 4.23466 4.43639 4.87818	26.50329 26.02848 25.54509 25.04824 24.52840 23.96941 23.34580 22.60677	2.07453 2.28040 2.48982 2.70497 2.92943 3.16901 3.43212 3.74111	1.18722+02 1.90722+02 3.08901+02 5.06956+02 8.50022+02 1.47574+03 2.70471+03 5.50947+03

LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
.00	1.00153	3.00222	4-00375	29.46820	-88647	7.69963+00
.20	1.00233	3.00163	4.00396	29.00622	1.08681	1.22127+01
•40	1.00364	3.00118	4.00482	28.54390	1.28738	1.93812+01
.60	1.00575	3.00077	4.00652	28.08085	1.48829	3.07815+01
.80	1.00911	3.00040	4-00952	27.61661	1.68974	4.89486+01
1.00	1.01450	3.00005	4.01455	27.15040	1.89205	7.79920+01
1.20	1.02314	2.99964	4.02278	26.68096	2.09574	1.24664+02
1.40	1.03710	2.99910	4.03620	26.20629	2.30162	2.00272+02
1.60	1.05984	2.99841	4.D5825	25.72319	2.51104	3.24369+02
1.80	1.09744	2.99781	4.09525	25.22660	2.72618	5.32329+02
2.00	1.16106	2.99734	4.15840	24.70742	2.95066	8-92606+02
2.20	1-27163	2.99789	4.26953	24.15010	3.19016	1.54939+03
2.40	1.46974	3.00282	4.47256	23.52882	3.45304	2-83818+03
2-60	1.88470	3.02800	4.91270	22.79381	3.76105	5.76833+03
2.80	2.81052	3.16625	5.97676	21.87957	4.13459	1.36330+04
3.00	5.06974	3.73633	8.80607	20.72255	4-59079	3.89753+04
						•
			T= 220	00	AIR	•
LOG RHO	Z	E/RT	T= 22( H/RT	00 \$/R		· P
LOG RHO	Z 1.00163	E/RT 3.03652	V		LOG P	· · · · · · · · · · · · · · · · · · ·
	_		H/RT	S/R		P 8-06696+00 1-27953+01
-00	1.00163	3.03652	H/RT 4.03815	S/R 29.64230	LDG P •90671	8.06696+00
-00 -20	1.00163	3.03652 3.03538 3.03447 3.03373	H/RT 4.03815 4.03778	S/R 29.64230 25.17974	LDG P .90671 1.10705	8.06696+00 1.27953+01
.00 .20 .40 .60	1.00163 1.00240 1.00371	3.03652 3.03538 3.03447	H/RT 4.03815 4.03778 4.03817	S/R 29.64230 25.17974 28.71692	LOG P .90671 1.10705 1.30761	B.06696+00 1.27953+01 2.03053+01
.00 .20 .40 .60 .80	1.00163 1.00240 1.00371 1.00580	3.03652 3.03538 3.03447 3.03373	H/RT 4.03815 4.03778 4.03817 4.03953	S/R 29.64230 25.17974 28.71692 28.25351	LOG P •90671 1•10705 1•30761 1•50852	8.06696+00 1.27953+01 2.03053+01 3.22493+01
.00 .20 .40 .60 .80 1.00	1.00163 1.00240 1.00371 1.00580 1.00916	3.03652 3.03538 3.03447 3.03373 3.03312	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227	S/R 29.64230 25.17974 28.71692 28.25351 27.78900	LOG P .90671 1.10705 1.30761 1.50852 1.70996	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01
.00 .20 .40 .60 .80 1.00 1.20	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260	LOG P .90671 1.10705 1.30761 1.50852 1.70996	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530 4.06879 4.09108 4.12830	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307 26.37844	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747 1.16104	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118 3.03082 3.03097	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530 4.05879 4.09108 4.12830 4.19201	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307 26.87844 25.89555 25.39918 24.88061	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185 2.53127 2.74640 2.97085	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02 3.39836+02 5.57699+02 9.35083+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747 1.16104 1.27135	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118 3.03082 3.03097	H/RT 4.03815 4.03778 4.03817 4.03953 4.04217 4.04713 4.05530 4.05830 4.09108 4.12830 4.19201 4.30431	S/R 29.64230 25.17974 28.71692 28.25351 27.7890D 27.32260 26.85307 26.87844 25.89555 25.39918 24.88061 24.32479	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185 2.53127 2.74640 2.97085 3.21027	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02 3.39836+02 5.57699+02 9.35083+02 1.62282+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747 1.16104 1.27135 1.46864	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118 3.03082 3.03097 3.03296 3.03976	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530 4.05839 4.12830 4.12830 4.19201 4.30431 4.50839	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307 26.37844 25.89555 25.89555 24.88061 24.32479 23.70565	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185 2.53127 2.74640 2.97085 3.21027 3.47292	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02 3.39836+02 5.57699+02 9.35083+02 1.62282+03 2.97112+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747 1.16104 1.27135 1.46864 1.87921	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118 3.03097 3.03296 3.03976 3.0376	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530 4.05839 4.12830 4.12830 4.12830 4.19201 4.30431 4.50839 4.94669	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307 26.85307 26.8555 25.89555 25.89555 24.88061 24.32479 23.70565 22.97442	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185 2.53127 2.53127 2.74640 2.97085 3.21027 3.47292	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02 3.39836+02 5.57699+02 9.35083+02 1.62282+03 2.97112+03 6.02532+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00163 1.00240 1.00371 1.00580 1.00916 1.01454 1.02319 1.03715 1.05990 1.09747 1.16104 1.27135 1.46864	3.03652 3.03538 3.03447 3.03373 3.03312 3.03259 3.03211 3.03164 3.03118 3.03082 3.03097 3.03296 3.03976	H/RT 4.03815 4.03778 4.03817 4.03953 4.04227 4.04713 4.05530 4.05839 4.12830 4.12830 4.19201 4.30431 4.50839	S/R 29.64230 25.17974 28.71692 28.25351 27.78900 27.32260 26.85307 26.37844 25.89555 25.89555 24.88061 24.32479 23.70565	LOG P .90671 1.10705 1.30761 1.50852 1.70996 1.91228 2.11596 2.32185 2.53127 2.74640 2.97085 3.21027 3.47292	8.06696+00 1.27953+01 2.03053+01 3.22493+01 5.12814+01 8.17109+01 1.30605+02 2.09822+02 3.39836+02 5.57699+02 9.35083+02 1.62282+03 2.97112+03

			T= 230	00	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
•00	1.00179	3.07099	4.07278	25.81300	•92609	8.43510+00
•20	1.00253	3.06897	4.07150	29.34948	1.12641	1.33786+01
.40	1.00381	3.06732	4.07114	28.88589	1.32696	2.12305+01
.60	1.00589	3.06603	4.07192	28.42188	1.52786	3.37179+01
- 80	1-00923	3.06500	4.07422	27.95691	1.72930	5.36167+01
1.00	1.01460	3.06415	4-07875	27.49016	1.93161	8.54299+01
1.20	1.02324	3.06348	4.08673	27-02042	2.13529	1.36549+02
1.40	1.03719	3.06296	4.10015	26.54572	2.34117	2.19366+02
1-60	1.05993	3.06261	4.12254	26.06292	2.55059	3-55296+02
1.60	1.09748	3.06243	4.15991	25-56670	2.76571	5.83056+02
2.00	1.16093	3-06307	4-22400	25.04865	2.99012	9.77507+02
2.20	1.27093	3.06622	4.33714	24-49410	3.22943	1.69602+03
2.40	1.46740	3.07460	4.54200	23.87689	3.49186	3.10356+03
2-60	1.87370	3.10460	4.97830	23.14921	3.79801	6.28073+03
2.80	2.75779	3.24306	6.00085	22.24779	4.16587	1.46511+04
3.00	4.87479	3.77518	8.64996	21.10294	4.61327	4.10459+04
			T= 246	00	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	Ρ
•00	1.00206	3.10745	4-10951	29.98110	.94469	8-80420+00
•20	1.00275	3.10415	4.10690	29.51620	1.14499	1.39634+01
.40	1.00399	3.10148	4.10547	29.05148	1.34552	2.21575+01
-60	1.00603	3.09938	4.10541	28.58660	1.54640	3.51884+01
.80	1.00934	3.09773	4-10707	28.12095	1.74783	5.59539+01
1.00	1.01469	3.09642	4.11110	27.65369	1.95013	8.91518+01
1.20	1.02331	3.09542	4.11873	27.18358	2.15380	1-42495+02
1.40	1.03724	3.09470	4.13194	26.70867	2.35967	2.28913+02
1.60	1.05996	3.09432	4.15427	26.22581	2-56908	3.70749+02
1.80	1.09747	3-09424	4.19171	25.72969	2.78419	6.08401+02
2.00	1-16075	3.09523	4.25599	25.21203	3.00853	1.01984+03
2-20	1.27041	3.09918	4.36959	24.65844	3.24774	1.76905+03
2.40	1.46606	3.10887	4.57492	24.04291	3.50995	3.23556+03
2.60	1.86821	3-14092	5.00913	23.31861	3.81522	6.53461+03
2.60 3.00	2.73387 4.78897	3-27894 3-79320	6.01281 8.58217	22.42264 21.28219	4.18057 4.62404	1.51555+04
			0 60717	21 20210	4 47LD4	4 30746401

			T= 250	00	AIR	
LOG RHD	Z	E/RT	H/RT	S/R	LDG P	P
.00	1.00246	3.14690	4.14936	30.14780	.96259	9-17466+00
-20	1.00308	3.14184	4.14492	29.68097	1.16286	1.45499+01
.40	1.00425	3.13782	4.14207	29.21477	1.36336	2-30866+01
.60	1.00623	3.13465	4-14088	28.74870	1.56422	3-66623+01
-80	1.00950	3.13215	4.14165	28.28212	1.76563	5-82948+01
1.00	1.01481	3.13020	4.14501	27-81416	1.96791	9.28774+01
1.20	1.02340	3.12871	4.15211	27.34352	2.17157	1.48447+02
1.40	1.03730	3.12766	4.16496	26.86822	2.37743	2.38468+02
1.60	1.05998	3.12707	4.18705	26.38515	2.58682	3.86207+02
1.80	1-09745	3.12700	4.22445	25.88904	2.80191	6.33738+02
2.00	1-16055	3.12819	4.28874	25-37162	3.02619	1-06216+03
2-20	1.26984	3.13253	4.40237	24.81858	3.26527	1.84192+03
2.40	1-46463	3.14319	4.60782	24-20445	3-52725	3.36705+03
2.60	1-86277	3-17711	5.03988	23.48336	3-83168	6.78703+03
2.80	2.71142	3.31439	6-02581	22.59226	4-19472	1.56574+04
3.00	4.70979	3.81159	8.52138	21.45540	4.63452	4.31042+04
			T= 260	<b>30</b>	AIR	
LOG RHO	2	E/RT	H/RT	e (D	100.0	-
•00	1.00306	3-18893	4.19199	S/R 30.31400	LOG P -97988	P 9.54729+00
.20	1-00355	3.18140	4-18494	25.84445	1.18010	1.51391+01
.40.	1.00462	3-17548	4.18010	29.37615	1.38056	2.40193+01
.60	1.00652	3.17078	4-17730	28.90841	1.58138	3.81399+01
.80	1.00973	3.16707	4-17680	28.44051	1.78276	6.06401+01
1-00	1.01499	3.16420	4-17918	27.97153	1.98502	9.66095+01
1.20	1.02353	3.16199	4-18552	27.50009	2.18866	1.54405+02
1.40	1.03739	3.16038	4.19777	27-02419	2.39450	2.48028+02
1.60	1.06002	3.15941	4.21943	26.54071	2.60387	4.01671+02
1.80	1-09742	3-15920	4.25663	26-04446	2.81893	6.59068+02
2.00	1.16034	3-16043	4.32078	25.52712	3.04314	1-10443+03
2.20	1.26926	3.16489	4-43414	24-97438	3.28211	1.91474+03
2.40	1.46315	3.17630	4+63945	24-36142	3.54384	3.49816+03
2.60	1.85739	3.21186	5.06925	23.64334	3.84746	7.03817+03
2.80	2.69033	3.34815	6-03847	22.75662	4.20836	1-61570+04
3.00	4.63652	3.82913	8.46565	21.62272	4.64475	4-41316+04

			T= 270	90	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LDG P	P
-00	1.00390	3.23417	4.23807	30.48100	.99664	9.92293+00
-20	1.00421	3.22322	4.22743	3C.00769	1.19677	1.57315+01
-40	1.00514	3.21459	4.21973	29.53641	1.39718	2-49563+01
-60	1.00694	3.20772	4.21466	25.06628	1.59795	3.96232+01
-80	1.01006	3.20229	4.21235	28.59649	1.79929	6.29927+01
1.00	1.01524	3.19807	4.21331	28-12602	2.00152	1.00351+02
1.20	1.02373	3.19480	4.21852	27.65342	2.20513	1.60373+02
1.40	1.03752	3.19237	4.22989	27.17663	2.41094	2.57597+02
1.60	1.06009	3.19079	4.25068	26.69249	2.62029	4.17148+02
1.00	1-09740	3-19026	4-28767	26.19590	2.83531	6.84400+02
2.00	1.16015	3.19137	4.35152	25.67849	3.05946	1.14673+03
2.20	1.26868	3.19584	4.46452	25.12593	3.29830	1.98747+03
2.4D	1.46162	3.20789	4.66951	24.51406	3.55978	3.62894+D3
2.60	1.85210	3.24490	5-09700	23.79879	3.86261	7-28803+03
2.80	2.67049	3.38000	6.05049	22.91600	4.22154	1.66548+04
3.00	4.56855	3.84551	8-41406	21.78449	4.65473	4.51575+04
		•	T= 280	00	AIR	
LOG RHD	2	E/RT	H/RT	S/R	LOG P	ρ
-00				37 K		
.20	1.00506	3.28499	4-29005	30.64990	1.01293	
• 20	1.00506 1.00513	3.28499				1.03022+01
-40			4.29005	30.64990	1.01293	1.03022+01
	1.00513	3.28499 3.26958	4.29005 4.27471	30.64990 30.17165	1.01293	1.03022+01 1.63290+01
-40	1.00513 1.00587	3.28499 3.26958 3.25733	4.29005 4.27471 4.26320	30.64990 30.17165 29.69638	1.01293 1.21296 1.41328	1.03022+01 1.63290+01 2.58988+01
•40 •60	1.00513 1.00587 1.00752	3.28499 3.26958 3.25733 3.24759	4.29005 4.27471 4.26320 4.25511	30.64990 30.17165 29.69638 29.22308	1.01293 1.21296 1.41328 1.61399	1.03022+01 1.63290+01 2.58988+01 4.11140+01
.40 .60 .80	1.00513 1.00587 1.00752 1.01051	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913	4.29005 4.27471 4.26320 4.25511 4.25038	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411	1.01293 1.21296 1.41328 1.61399 1.81528	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01
.40 .60 .80 1.00	1.00513 1.00587 1.00752 1.01051 1.01559	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02
.40 .60 .80 1.00 1.20 1.40	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22317	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.28337	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02
.40 .60 .80 1.00 1.20 1.40 1.60	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22317 3.22210	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.28337 4.31951	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.34390	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613 2.85111	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02
.40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741 1.15997	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22317 3.22210 3.22291	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.28337 4.31951 4.38288	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.34390 25.82622	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.42682 2.63613 2.85111	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02 1.18902+03
.40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741 1.15997 1.26810	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22517 3.22210 3.22291	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.28337 4.31951 4.38288 4.49539	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.34390 25.82622 25.27372	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613 2.85111 3.07519	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02 1.18902+03 2.06016+03
.40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741 1.15997 1.26810 1.46006	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22517 3.22210 3.22291 3.22728	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.26331 4.38288 4.49539 4.69992	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.34390 25.82622 25.27372	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613 2.85111 3.07519 3.31390	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02 1.18902+03 2.06016+03 3.75933+03
.40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741 1.15997 1.26810 1.46006 1.84691	3.28499 3.26958 3.25733 3.24759 3.23987 3.22313 3.22559 3.22517 3.22210 3.22291 3.22728 3.23986 3.27617	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.28337 4.31951 4.38288 4.49539 4.69992 5.12508	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.84390 25.82622 25.27372 24.66283 23.95023	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613 2.63613 2.635111 3.07519 3.31390 3.57511	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02 1.18902+03 2.06016+03 3.75933+03 7.53685+03
.40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.00513 1.00587 1.00752 1.01051 1.01559 1.02400 1.03772 1.06020 1.09741 1.15997 1.26810 1.46006	3.28499 3.26958 3.25733 3.24759 3.23987 3.23383 3.22913 3.22559 3.22517 3.22210 3.22291 3.22728	4.29005 4.27471 4.26320 4.25511 4.25038 4.24942 4.25312 4.26331 4.26331 4.38288 4.49539 4.69992	30.64990 30.17165 29.69638 29.22308 28.75076 28.27829 27.80411 27.32610 26.84105 26.34390 25.82622 25.27372	1.01293 1.21296 1.41328 1.61399 1.81528 2.01746 2.22104 2.42682 2.63613 2.85111 3.07519 3.31390	1.03022+01 1.63290+01 2.58988+01 4.11140+01 6.53552+01 1.04102+02 1.66357+02 2.67190+02 4.32643+02 7.09758+02 1.18902+03 2.06016+03 3.75933+03

			T= 29	00	AIR	
LOG RHO	ž	E/RT	H/RT	S/R	LOG P	P
•00	1.00660	3.34057	4.34717	30.82170	1.02884	1.06866+01
.20	1.00636	3.31949	4.32585	30.33715	1-22873	1.69328+01
.40	1.00685	3.30266	4.30951	29.85678	1.42895	2.68504+01
-60	1.00830	3.28926	4-29756	29.37942	1.62957	4.26157+01
• BQ	1.01112	3.27862	4.28975	28.90386	1.83079	6.77314+01
1.00	1.01608	3.27026	4.28633	28.42882	2.03291	1.07872+02
1.20	1.02437	3.26373	4.28810	27.95262	2.23644	1.72361+02
1-40	1.03799	3.25875	4.29675	27.47303	2.44218	2.76809+02
1-60	1.06037	3.25524	4.31561	26.98678	2.65144	4.48167+02
1.80	1.09745	3.25339	4.35084	26.48879	2.86636	7.35123+02
2.00	1.15982	3.25372	4.41354	25.97066	3.09037	1.23132+03
2.20	1.26755	3.25786	4.52541	25.41808	3.32895	2.13280+03
2.40	1.45848	3.27085	4.72933	24.80804	3.58988	3.88936+03
2.60 2.80	1.84182	3.31030	5.15212	24.09796	3.89123	7.78449+03
3.00	2.63424 4.44641	3.44262	6.07685	23.22194	4.24664	1.76457+04
3.00	7077071	3.87922	8.32563	22.09375	4.67399	4.72052+04
			T= 300	<b>30</b>	AIR	
			,		~~~	
LDG RHO	Z	E/RT	H/RT	S/R	LOG P	P
•00	1.00860	3.43461	4.41321	31.00020	1.04442	1-10769+01
. 20	1.00797	3.37648	4.38445	30.50777	1.24415	1.75449+01
-40	1.00813	3.35400	4.36213	30.02109	1.44422	2.78112+01
-60	1.00932	3.33609	4.34541	29.53870	1.64473	4-41296+01
• BO	1.01193	3.32187	4.33380	29-05913	1.84585	7.01213+01
1.00	1.01671	3.31063	4.32734	28.58089	2.04790	1.11661+02
1.20	1.02486	3.30183	4.32669	28.10216	2.25137	1.78390+02
1.40	1.03836	3.29508	4.33344	27.62059	2.45705	2.86451+02
1.60 1.80	1.06062	3.29018	4.35080	27-13281	2.66626	4-63724+02
2.00	1.15971	3.28731 3.28694	4.38484	26.63372 26.11489	2.88112	7.60536+02
2.20	1.26702	3-29071	4.55773	25.56207	3.10505 3.34349	1.27365+03 2.2054L+03
2.40	1.45689	3.30399	4.76088	24.95277	3.60413	4.01911+03
2.60	1-83684	3.34443	5.18127	24.24503	3.90478	8.03119+03
2.80	2.61765	3.47517	6.09282	23.37190	4-25862	1.81393+04
3.00	4.39136	3.89843	8.28979	22.24495	4.68330	4.82281+04
						OF FOT - O4

AIR

LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
-00	1.01113	3.47301	4.48414	31.18100	1.05975	1.14749+01
•20	1.01002	3.43656	4.44658	30.67920	1.25927	1.81664+01
-40	1.00976	3.40738	4.41714	30.18498	1.45916	2.87846+01
•60	1.01062	3.38410	4.39472	29-69654	1.65953	4-56594+01
-80	1.01296	3.36557	4.37853	29.21212	1.86054	7,25337+01
1.00	1.01752	3.35087	4.36839	28.72999	2.06249	1.15476+02
1.20	1.02549	3.33932	4.36481	28.24818	2.26588	1.84451+02
1.40	1.03884	3.33039	4.36923	27.76418	2.47149	2-96135+02
1.60	1.06095	3.32379	4.38475	27.27452	2.68064	4.79336+02
1.80	1.09770	3.31961	4.41731	26.77400	2.89543	7.86013+02
2.00	1.15965	3.31832	4-47797	26.25422	3.11927	1-31604+03
2.20	1-26652	3.32153	4.58805	25.70096	3.35756	2.27803+03
2.40	1.45530	3.33497	4.79027	25.09226	3.61790	4.14859+03
2-60	1.83197	3.37628	5.20825	24.38673	3.91786	8.27675+03
2.80	2.60199	3.50535	6.10734	23.51619	4.27025	1.86316+04
3.00	4.33981	3.91592	8.25573	22.39022	4.69242	4.92516+04
			T= 320	00	AIR	
ING PMO	7	5/8 <b>7</b>				n
LOG RHO	2 1.01427	E/RT	H/RI	S/R	LDG P	p
-00	1.01427	3-54756	H/RT 4.56183	S/R 31.36730	LDG P 1.07489	1-18820+01
.00 .20	1.01427 1.01255	3.54756 3.50167	H/RT 4.56183 4.51422	S/R 31-36730 30-85475	LDG P 1.07489 1.27415	1.18820+01 1.87997+01
.00 .20 .40	1.01427 1.01255 1.01179	3.54756 3.50167 3.46477	H/RT 4.56183 4.51422 4.47655	S/R 31.36730 30.85475 30.35176	LDG P 1.07489 1.27415 1.47382	1.18820+01 1.87997+01 2.97728+01
.00 .20 .40 .60	1.01427 1.01255 1.01179 1.01224	3.54756 3.50167 3.46477 3.43522	H/RT 4.56183 4.51422 4.47655 4.44745	S/R 31.36730 30.85475 30.35176 29.85622	LDG P 1.07489 1.27415 1.47382 1.67402	1.18820+01 1.87997+01 2.97728+01 4.72085+01
.00 .20 .40 .60	1.01427 1.01255 1.01179 1.01224 1.01425	3.54756 3.50167 3.46477 3.43522 3.41161	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586	S/R 31.36730 30.85475 30.35176 .29.85622 29.36607	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01
.00 .20 .40 .60 .80	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135	S/R 31.36730 30.85475 30.35176 .29.85622 29.36607 28.87930	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02
.00 .20 .40 .60 .80 1.00	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40427	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02
.00 .20 .40 .60 .80 1.00 1.20	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40627 4.40589	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90686	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644 3.35779	H/RT 4.56183 4.51422 4.47655 4.44765 4.42586 4.41135 4.40589 4.40589	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90686 27.41490	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.87930 28.39380 27.90686 27.41490 26.91261	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139 1.09794	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644 3.35779	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993 4.50917	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90686 27.41490 26.91261 26.39160	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931 3.13306	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02 1.35850+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139 1.09794	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644 3.35779 3.35199	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90886 27.41490 26.39160 25.83763	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931 3.13306 3.37119	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02 1.35850+03 2.35066+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 2.00 2.20	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139 1.09794 1.15964	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644 3.35779 3.35199 3.34952 3.35193	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993 4.50917 4.61801 4.81910	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90686 27.41490 26.91261 26.39160 25.83763 25.22936	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931 3.13306 3.37119 3.63121	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02 1.35850+03 2.35066+03 4.27770+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139 1.09794 1.15964 1.26607 1.45372	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36644 3.35779 3.35199 3.34952	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993 4.50917 4.61801	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 27.9086 27.9086 27.41490 26.39160 25.83763 25.22936	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931 3.13306 3.37119 3.63121 3.93053	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02 1.35850+03 2.35066+03 4.27770+03 8.52177+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 2.00 2.20 2.40 2.60	1.01427 1.01255 1.01179 1.01224 1.01425 1.01854 1.02629 1.03945 1.06139 1.09794 1.15964 1.26607 1.45372	3.54756 3.50167 3.46477 3.43522 3.41161 3.39281 3.37798 3.36544 3.35779 3.35199 3.34952 3.35193 3.40748	H/RT 4.56183 4.51422 4.47655 4.44745 4.42586 4.41135 4.40589 4.41917 4.44993 4.50917 4.61801 4.81910 5.23471	S/R 31.36730 30.85475 30.35176 29.85622 29.36607 28.87930 28.39380 27.90686 27.41490 26.91261 26.39160 25.83763 25.22936	LDG P 1.07489 1.27415 1.47382 1.67402 1.87488 2.07671 2.28000 2.48554 2.69461 2.90931 3.13306 3.37119 3.63121	1.18820+01 1.87997+01 2.97728+01 4.72085+01 7.49687+01 1.19319+02 1.90546+02 3.05872+02 4.95005+02 8.11540+02 1.35850+03 2.35066+03 4.27770+03

T= 3100

			T= 330	00	AIR	
LOG RHO	Z .	E/RT	HZRT	S/R	LDG P	P
-D0	1.01806	3.62926	4-64732	31.55940	1.08987	1.22990+01
-20	1.01561	3.57269	4.58830	31-D3460	1.28882	1.94455+01
. 40	1.01425	3.52696	4.54121	30.52151	1.48824	3-07780+01
-60	1.01421	3.49017	4.50438	30.01771	1.68822	4.87776+01
.80	1.01583	3.46067	4.47650	29.52085	1.88892	7-74319+01
1.00	1.01980	3.43708	4.45688	29.02865	2.09061	1-23200+02
1.20	1.02728	3.41840	4.44567	28.53878	2.29379	1.96694+02
1.40	1.04021	3.40378	4.44399	28.04836	2.49922	3-15660+02
1.60	1-06194	3.39268	4.45462	27-55365	2.70820	5-10740+02
1.80	1.09828	3.38494	4.48322	27-D4921	2.92281	8.37163+02
2.00	1-15971	3-38103	4.54074	26.52666	3.14645	1.40104+03
2.20	1-26569	3-38238	4-64806	25.97169	3.38442	2.42337+03
2-40	1.45215	3.39566	4.84781	25.36367	3.64411	4.40666+03
2.60	1.82261	3.43847	5.26108	24.66227	3.94279	8.76577+03
2.80	2.57319	3-56404	6.13723	23.79619	4.29257	1.96142+04
3.00	4.24602	3.95089	8.19691	22.67141	4.71008	5-12956+04
			T= 34(	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
•00	1.02256	3.71834	4.74090	31.75770	1.10475	1.27277+01
.20	1-01925	3.64974	4.66899	31.21900	1.30334	2.01067+01
-40	1.01720	3.59397	4.61116	30-69437	1.50247	3-18031+01
.60	1-01658	3.54888	4.56546	30.18105	1.70220	5+03733+01
.80	1.01773	3.51260	4.53033	29-67643	1.90270	7.99282+01
1.00	1.02131	3.48349	4.50480	29.17792	2.10422	1.27122+02
1.20	1.02848	3.46033	4.48881	28.68295	2-30726	2.02890+02
1.40	1.04114	3.44213	4.48327	28-18846	2.51257	3.25514+02
1.60	1.06264	3.42817	4-49080	. 27-69052	2.72145	5-26563+02
1.80	1.09873	3.41813	4.51687	27.18353	2.93595	8-62879+02
2.00	1-15987	3-41249	4.57236	26.65910	3.15947	1.44368+03
2.20	1.26537	3.41250	4.67787	26.10281	3.39728	2.49620+03
2.40	1.45059	3.42545	4.87604	25.49484	3.65661	4.53534+03
2.60	1.81810	3-46889	5.28699	24-79536	3.95468	9-00907+03
2-80	2-55994	3.59265	6.15258	23.93119	4.30329	2.01043+04
3.00	4.20325	3.96853	8.17178	22.80683	4.71865	5.23179+04

			T= 350	30	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
+00	1.02779	3.81276	4.84055	31.96170	1.11956	1.31692+01
20	1.02352	3.73066	4.75418	31.40732	1.31775	2.07850+01
.40	1.02067	3.66351	4-68418	30.86954	1.51654	3-28504+01
•60	1.01938	3.60899	4.62837	30.34535	1.71599	5.19984+01
.80	1.01999	3.56496	4.58495	29.83181	1.91625	8.24613+01
1.00	1-02312	3.52952	4.55264	29.32605	2.11758	1.31093+02
1.20	1.02991	3.50123	4.53114	28.82519	2.32045	2.09146+02
1.40	1.04226	3.47890	4.52116	28.32599	2.52563	3.35452+02
1.60	1-06348	3.46163	4.52511	27.82430	2.73438	5.42475+02
1.80	1.09931	3.44894	4.54825	27.31431	2.94877	8.88730+02
2.00	1-16012	3.44125	4.60137	26.78765	3.17215	1.48645+03
2.20	1.26514	3.43963	4.70477	26.22970	3.40979	2-56915+03
2.40	1.44905	- 3 - 45204	4.90109	25.62157	3.66873	4.66369+03
2.60	1.81372	3.49604	5.30975	24.92391	3.96622	9.25167+03
2.80	2.54737	3.61795	6-16532	24.D6146	4.31374	2.05940+04
3.00	4.16290	3.98352	8-14642	22.93753	4.72705	5.33396+04
			T= 360	00	AIR	
LOG RHO	z	E/RT	H/RT	S/R	LOG P	Ρ.
.DO	1.03377	3.91373	4-94750	32.17130	1-13431	1.36242+01
-20					1013431	1.30242701
.40	1.02846	3.81752	4.84598	31.60030	1.33207	2.14818+01
4 =	1.02846 1.02471	3.81752 3.73830				
.60			4.84598	31.60030	1.33207	2.14818+01
.60 .80	1.02471	3.73830	4.84598 4.76301	31.60030 31.04839	1.33207 1.53048	2.14818+01 3.39219+01
	1.02471 1.02265	3.73830 3.67362 3.62114 3.57876	4.84598 4.76301 4.69627	31.60030 31.04839 30.51235	1.33207 1.53048 1.72961	2.14818+01 3.39219+01 5.36550+01
.80	1.02471 1.02265 1.02263	3.73830 3.67362 3.62114	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638	31.60030 31.04839 30.51235 29.98902	1.33207 1.53048 1.72961 1.92961	2.14818+01 3.39219+01 5.36550+01 8.50374+01
.80 1.00 1.20 1.40	1.02471 1.02265 1.02263 1.02525	3.73830 3.67362 3.62114 3.57876	4.84598 4.76301 4.69627 4.64378 4.60401	31.60030 31.04839 30.51235 29.98902 29.47521	1.33207 1.53048 1.72961 1.92961 2.13071	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02
.80 1.00 1.20 1.40 1.60	1.02471 1.02265 1.02263 1.02525 1.03160	3.73830 3.67362 3.62114 3.57876 3.54478	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02
.80 1.00 1.20 1.40 1.60	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56138 4.58121	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02
.80 1.00 1.20 1.40 1.60 1.80 2.00	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449 1.10002	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119 3.47115	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56138 4.58121 4.63164	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398 26.91472	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129 3.18452	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02 1.52940+03
.80 1.00 1.20 1.40 1.60 1.80 2.00	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449 1.10002 1.16048	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119 3.47115	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56138 4.58121 4.63164 4.73262	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398 26.91472 26.35478	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129 3.18452 3.42198	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02 1.52940+03 2.64229+03
.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449 1.10002 1.16048 1.26501	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119 3.47115 3.46761	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56131 4.63164 4.73262 4.92686	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398 26.91472 26.35478 25.74630	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129 3.18452 3.42198	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02 1.52940+03 2.64229+03 4.79192+03
.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449 1.10002 1.16048 1.26501 1.44753	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119 3.47115 3.46761 3.47933	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56138 4.56121 4.63164 4.73262 4.92686 5.33326	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398 26.91472 26.35478 25.74630	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129 3.18452 3.42198 3.68051	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02 1.52940+03 2.64229+03 4.79192+03 9.49358+03
.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.02471 1.02265 1.02263 1.02525 1.03160 1.04359 1.06449 1.10002 1.16048 1.26501	3.73830 3.67362 3.62114 3.57876 3.54478 3.51785 3.49688 3.48119 3.47115 3.46761	4.84598 4.76301 4.69627 4.64378 4.60401 4.57638 4.56144 4.56131 4.63164 4.73262 4.92686	31.60030 31.04839 30.51235 29.98902 29.47521 28.96780 28.46331 27.95737 27.44398 26.91472 26.35478 25.74630	1.33207 1.53048 1.72961 1.92961 2.13071 2.33340 2.53841 2.74703 2.96129 3.18452 3.42198	2.14818+01 3.39219+01 5.36550+01 8.50374+01 1.35117+02 2.15477+02 3.45470+02 5.58509+02 9.14724+02 1.52940+03 2.64229+03 4.79192+03

			T= 3	700	AIR	
LOG RHO	2	E/RT	****	12.		
.00	1-04045	4-01840	H/RT	S/R	LOG P	P
-20	1-03403	3.90852	5-05885	32-38500	1.14901	1.40932+01
-40	1-02929	3.81725	4-94256	31.79751	1.34632	2.21983+01
-60	1.02640	3.74216	4.84654	31.23120	1.54432	3.50203+01
.80	1.02567	3.68088	4.76856	30.68285	1.74310	5.53478+01
1.00	1-02770	3.63114	4-70655	30-14916	1.94279	8.76577+DL
1.20	1.03356	3.59107	4-65884	29.62673	2-14365	1.39203+02
1.40	1.04514	3.55915	4.62463 4.60428	29-11222	2.34612	2-21881+02
1.60	1-06569	3.53411	4.59980	28-60192	2-55096	3-55599+02
1.80	1.10089	3.51511		28-09129	2.75941	5.74659+02
2.00	1-16097	3.50244	4.61600 4.66341	27.57412	2-97353	9-40871+02
2.20	1.26499	3.49669	4.76168	27-04191	3.19660	1.57253+03
2.40	1-44603	3.50740	4-95363	26.47965	3.43387	2-71563+03
2.60	1.80531	3-55251		25.87066	3.69196	4-91994+03
2.80	2-52411	3.67069	5.35782	25-17639	3.98834	9-73509+03
3.00	4.08871	4.01705	6-19460	24-31687	4-33389	2-15720+04
	111 - 325.5	4101145	8.10575	23.19351	4.74337	5.53822+04
			T= 38(	00	AIR	
LOG RHO	· Z	E/RT	H/RT	* **		
•00	1.04778	4.12730	5-17508	S/R	LOG P	P
-20	1.04020	4-00431	5.04451	32.60190 31.99819	1.16364	1.45761+01
• 40	1.03441	3.90104	4.93545	31.41729	1.36048	2.29340+01
-60	1.03061	3.81532	4.84593	3C.85617	1.55806	3-6146D+01
-80	1.02911	3.74485	4.77396	30.31153	1.75646	5-70769+01
1.00	1.03049	3-68732	4.71781	25.77989	1-95583	9-03296+01
1.20	1.03580	3.64073	4-67653	29.25769	2.15641	1-43354+02
1-40	1.04691	3.60339	4.65031	28.74107	2-35864	2.28371+02
1.60	1.06707	3.57391	4-64098	28.22526	2.56328	3.65831+02
1.80	1.10190	3.55129	4-65320	27-70392	2.77156	5.90963+02
2.00	1.16158	3-53567	4-69726	27.16839	2.98551	9-67186+02
2-20	1.2650B	3.52744	4.79252	26.60345	3-20842	1.61592+03
2-40	1.44456	3.53739	4.98195	25-99379	3.44548	2.78920+03
2.60	1.80128	3-58270	5.38398	25.30111	3.70310	5-04778+03
2.80	2.51333	3.69899	6.21233	24.44284	3.99895	9.97585+03
3.00	4-05453	4.03634	8.09087	23.31959	4.34362	2-20607+04
				-2.21424	4.75131	5-64040+04

			T= 390	10	AIR	
LOG RHO	z	E/RT	H/RT	5/R	LOG P	ρ
.00	1.05569	4.23728	5.29297	32.82060	1.17818	1-50723+01
• 20	1-04691	4.10187	5-14878	32.20112	1.37456	2.36897+01
.40	1.04004	3.98671	5.02676	31-60550	1.57170	3.72992+01
. 60	1.03528	3.89015	4.92543	31.03116	1.76970	5.88437+01
-80	1.03295	3.81009	4.84304	30.47497	1.96873	9.30529+01
1.00	1.03362	3.74431	4.77793	25.93349	2.16901	1.47574+02
1.20	1.03833	3.69075	4.72908	29.40302	2.37098	2.34952+02
1.40	1.04893	3.64755	4.69649	28.87949	2.57540	3.76184+02
1.60	1-06865	3.61323	4.68188	28.35801	2.78349	6.07421+02
1.60	1.10309	3.58665	4.68974	27.83208	2.99726	9.93711+02
2.00	1.16235	3.56776	4.73011	27.29283	3.21998	1.65951+03
2.20	1.26530	3.55672	4.82202	26.72483	3.45684	2.86312+03
2.40	1.44311	3.56559	5.00870	26.11433	3.71395	5-17547+03
2.60	1.79737	3.61124	5.40861	25.42318	4.00928	1.02160+04
2-80	2.5030B	3.72566	6.22874	24.56603	4.35312	2-25486+04
3.00	4.02211	4.05444	8.07655	23.44286	4.75910	5.74249+04
			T= 400	10	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
•00	1.06407	4.34655	5.41062	33.03900	1.19261	1.55815+01
-20	1.05411	4.19957	5.25368	32.40437	1.38853	2.44641+01
-40	1.04616	4.07270	5.11886	31.79397	1.58524	3.84804+01
.60	1.04040	3.96507	5.00547	31.20599	1.78284	6.06513+01
.80	1.03719	3.87501	4.91220	30.63765	1.98150	9.58297+01
1.00	1.03710	3.80051	4.83761	30.08566	2.18146	1.51866+02
1.20	1.04116	3.73949	4.78065	29.54629	2.38316	2.41635+02
1.40	1.05121	3.68997	4.74118	29.01526	2.58733	3.86661+02
1.60	1.07045	3.65038	4.720B2	28.48758	2.79521	6.24037+02
1-80	1.10445	3.61949	4.72394	27.95662	3.00879	1.02045+03
2-00	1.16327	3.59698	4.76025	27.41322	3.23132	1.70341+03
2-20	1.26564	3.58281	4.84845	26.84178	3.46795	2.93731+03
2-40	1020307	313000				
2170	1.44169	3.59046	5.03215	26-23026	3.72452	5.30298+03
2.60	1.44169 1.79356	3.59046 3.63640	5.42996	25.54056	4-01936	1.04559+04
	1.44169	3.59046				

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LDG RHO	2	E/RT	H/RT	S/R	LOG P	P
.00	1.07280	4.45451	5.52731	33.25550	1.20689	1.61024+01
.20	1-06174	4.29738	5.35912	32.60696	1.40239	2.52575+01
-40	1.05273	4.15962	5.21235	31.98240	1.59868	3.96899+01
.60	1.04596	4.04132	5.08728	31.38095	1.79588	6.25000+01
.80	1.04184	3.94134	4.98317	30.80035	1.99417	9-86666+01
1.00	1.04094	3.858C1	4.89895	30.23759	2.19379	1.56239+02
1.20	1.04430	3.78934	4.83363	29.68896	2.39519	2-48422+02
1.40	1.05375	3.73325	4.78700	29.15007	2.59910	3.97283+02
1.60	1.07246	3.68814	4.76060	28.61582	2.80675	6.40841+02
1.80	1.10599	3.65270	4.75869	28.07948	3.02012	1.04742+03
2.00	1.16436	3.62638	4.79074	27.53168	3.24245	1.74763+03
2.20	1.26612	3.60891	4.87503	26.95654	3.47884	3.01190+03
2.40	1.44030	3.61520	5.05550	26.34384	3.73482	5.43025+03
2.60	1.78987	3.66141	5.45128	25.65555	4.02919	1.06952+04
2.80	2.48400	3.77212	6.25611	24.80031	4.37152	2.35245+04
3.00	3.96199	4.08508	8-04706	23.67737	4.77428	5.94675+04
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•		
			T= 428	00	AIR	
LDC BUD	,	EART				
LOG RHD	Z 1 08172	E/RT	H/RT	S/R	LOG P	P 1 44332401
• DQ	1-08172	4.55837	H/RT 5.64009	S/R 33.46810	LOG P 1-22095	1.66322+01
.20	1.08172 1.06970	4.55837 4.39320	H/RT 5.64009 5.46291	S/R 33.46B1D 32.80763	LOG P 1.22095 1.41610	1.66322+01 2.60675+01
.00 .20 .40	1.08172 1.06970 1.05968	4.55837 4.39320 4.24612	H/RT 5.64009 5.46291 5.30580	S/R 33.46B10 32.80763 32.17033	LOG P 1.22095 1.41610 1.61201	1.66322+01 2.60675+01 4.09270+01
.00 .20 .40 .60	1.08172 1.06970 1.05968 1.05191	4.55837 4.39320 4.24612 4.11821	H/RT 5.64009 5.46291 5.30580 5.17012	S/R 33.46810 32.80763 32.17033 31.55630	LOG P 1.22095 1.41610 1.61201 1.80881	1.66322+01 2.60675+01 4.09270+01 6.43888+01
.00 .20 .40 .60	1.08172 1.06970 1.05968 1.05191 1.04685	4.55837 4.39320 4.24612 4.11821 4.00898	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583	\$/R 33.46810 32.80763 32.17033 31.55630 30.96392	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02
.00 .20 .40 .60 .80	1-08172 1-06970 1-05968 1-05191 1-04685 1-04510	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228	S/R 33.46810 32.80763 32.17033 31.55630 30.96392 30.39057	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599	1.66322+01 2.60675+01 4.09270+01 6.4388+01 1.01559+02 1.60690+02
.00 .20 .40 .60 .80 1.00	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870	S/R 33.46810 32.80763 32.17033 31.55630 30.96392 30.39057 29.83267	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02
.00 .20 .40 .60 .80 1.00 1.20	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488	S/R 33.46810 32.80763 32.17033 31.55630 30.96392 30.39057 29.83267 29.28580	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708 2.61072	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.80235	S/R 33.46810 32.80763 32.17033 31.55630 30.96392 30.39057 29.83267 29.28580 28.74483	LOG P 1.22095 1.41610 1.61201 1.80801 2.00672 2.20599 2.40708 2.61072 2.81812	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.72766	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.80235 4.79524	S/R 33.46810 32.80763 32.17033 31.55630 30.96392 30.39057 29.28580 26.74483 28.20289	LOG P 1.22095 1.41610 1.61201 1.80801 2.00672 2.20599 2.40708 2.61072 2.81812 3.03126	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.72766 3.68753	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.882870 4.88488 4.80235 4.79524 4.82299	S/R 33.46B10 32.80763 32.17033 31.55630 30.96392 30.39057 29.83567 29.83567 29.28580 26.74483 28.20289 27.65059	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708 2.61072 2.81812 3.03126 3.25338	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03
.00 .20 .40 .60 .80 1.00 1.40 1.40 1.80 2.00 2.20	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469 1.10772 1.16560 1.26674	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.72766 3.68753 3.65739	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.83235 4.79524 4.82299 4.90335	S/R 33.46B10 32.80763 32.17033 31.55630 30.96392 30.39057 29.83567 29.28580 28.74483 28.20289 27.65059 27.07168	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708 2.61072 2.61072 2.61812 3.03126 3.25338 3.48952	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03 1.79217+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469 1.10772 1.16560 1.26674 1.43894	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.72766 3.68753 3.65739 3.63661 3.64143	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.89232 4.79224 4.82299 4.90335 5.08038	S/R 33.46B10 32.80763 32.17033 31.55630 30.96392 30.39057 29.83267 29.28580 26.74483 28.20289 27.65059 27.07168 26.45764	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708 2.61072 2.81812 3.03126 3.25338 3.48952 3.74488	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03 1.79217+03 3.08688+03 5.55751+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469 1.10772 1.16560 1.26674 1.43894 1.78629	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.778766 3.68753 3.65739 3.63661 3.64143	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.80235 4.70335 5.08038 5.47418	S/R 33.46B1D 32.80763 32.17033 31.5563D 30.96392 30.39057 29.83267 29.2858D 28.74483 28.20289 27.65059 27.07168 26.45764 25.77072	LOG P 1-22095 1-41610 1-61201 1-80881 2-00672 2-20599 2-40708 2-61072 2-81812 3-03126 3-25338 3-48952 3-74488 4-03878	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03 1.79217+03 3.08688+03 5.55751+03 1.09340+04
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20	1.08172 1.06970 1.05968 1.05191 1.04685 1.04510 1.04773 1.05654 1.07469 1.10772 1.16560 1.26674 1.43894	4.55837 4.39320 4.24612 4.11821 4.00898 3.91717 3.84097 3.77834 3.72766 3.68753 3.65739 3.63661 3.64143	H/RT 5.64009 5.46291 5.30580 5.17012 5.05583 4.96228 4.88870 4.83488 4.89232 4.79224 4.82299 4.90335 5.08038	S/R 33.46B10 32.80763 32.17033 31.55630 30.96392 30.39057 29.83267 29.28580 26.74483 28.20289 27.65059 27.07168 26.45764	LOG P 1.22095 1.41610 1.61201 1.80881 2.00672 2.20599 2.40708 2.61072 2.81812 3.03126 3.25338 3.48952 3.74488	1.66322+01 2.60675+01 4.09270+01 6.43888+01 1.01559+02 1.60690+02 2.55317+02 4.08056+02 6.57840+02 1.07463+03 1.79217+03 3.08688+03 5.55751+03

			T= 430	. 00	AIR	
LOG RHO	Z	E/RT	H/RT	5/R	LOG P	P
•00	1.09068	4.65739	5.74807	33.67500	1.23475	1.71692+01
-20	1.07788	4.48663	5.56451	33.00498	1.42962	2.68918+01
•40	1.06692	4.33207	5.39899	32.35664	1.62518	4.21871+01
-60	1.05818	4.19578	5.25397	31.73113	1.82161	6.63147+01
.80	1.05219	4-07807	5.13026	31.12760	2.01915	1.04508+02
1.00	1.04957	3.97820	5.02777	30-54392	2-21806	1.65219+02
1.20	1.05144	3.89464	4.94608	29-97679	2.41883	2.62319+02
1.40	1.05958	3.82550	4.08508	29.42186	2.62218	4.18967+02
1.60	1.07713	3.76919	4.84633	28.87401	2.82932	6.75025+02
1.80	1.10962	3.72424	4.83386	28.32624	3.04223	1.10212+03
2.00	1.16699	3.69029	4.85728	27.76938	3.26412	1.83705+03
2.20	1.26750	3.66619	4.93369	27-18662	3.50000	3.16228+03
2-40	1.43761	3.66944	5.10705	26.57111	3.75469	5.68447+03
2-60	1.76281	3.71613	5.49894	25.88551	4.04816	1.11727+04
2.80	2.46661	3.82315	6.28976	25.03177	4.38915	2.44991+04
3.00	3.90746	4.12161	8.02907	23.90889	4.78895	6.15106+04
			T= 44	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LDG P	Р
.00	1.09957	4.74890	5.84847	33.87500	1.24826	1.77117+01
.20	1.08614	4-57535	5.66150	33.19824	1.44292	2.77281+01
.40	1.07435	4.41542	5.48977	32.54090	1.63818	4.34690+01
. 60	1.06471	4.27219	5.33690	31.90523	1.83427	6-82763+01
.80	1.05781	4.14689	5.20470	31.29132	2.03144	1.07508+02
1.00	1.05432	4.03944	5.09376	30.69768	2.23001	1.69828+02
1.20	1.05540	3.94873	5.00413	30.12139	2.43045	2.69433+02
1.40	1.06285	3.87314	4.93599	29.55835	2.63351	4-30041+02
1.60	1.07978	3.81117	4.89096	29-00348	2.84037	6.92421+02
1.80	1.11171	3.76126	4.87297	28-44967	3.05303	1.12987+03
2.00	1.16851	3.72352	4.89203	27.88618	3.27467	1.88222+03
2.20	1.26839	3.69610	4.96450	27.30151	3.51029	3.23810+03
2.40	1.43630	3.69768	5.13398	26.68438	3.76428	5.81139+03
2.60	1.77943	3.74458	5.52401	26.00008	4.05732	1-14109+04
2.80						
	2.45849	3.84977	6.30826	25.14695	4.39770	2.49862+04
3.00	2.45849 3.88205	3.84977 4.14151	6.30826 8.02355	25.14695 24.02412	4.39770 4.79610	2.49862+04 6.25317+04

2.40

2.60

2.80

3.00

1.43378

1.77296

2.44327

3.83454

3.75738

3.80468

3-90629

4.18558

			_		AIK	
LOG RHO .00 .20 .40 .80 1.00 1.20 1.40 1.60 2.00 2.20 2.40 2.60 2.80 3.00	2 1.10825 1.09436 1.08188 1.07142 1.06365 1.05932 1.05961 1.06634 1.1397 1.17015 1.26943 1.43503 1.77615 2.45072 3.85777	E/RT 4-83402 4-66088 4-49797 4-34945 4-21759 4-10311 4-00550 3-92356 3-85591 3-80091 3-72867 3-72844 3-77556 3-87894 4-16432	H/RT 5.94227 5.75524 5.57985 5.42087 5.28124 5.16243 5.06511 4.98990 4.93854 4.91488 4.99810 5.16347 5.55170 6.32966 8.02209	S/R 34.06740 33.38714 32.72320 32.073895 31.45559 30.85243 30.26713 29.69596 29.13394 28.57386 28.00771 27.41709 26.79818 26.11514 25.26255 24.13985	LDG P 1.26144 1.45598 1.65097 1.84676 2.04359 2.24182 2.44194 2.64469 2.85128 3.06367 3.28504 3.52040 3.773667 4.06627 4.40609 4.80313	P 1.82574+01 2.85733+01 4.47682+01 7.02684+01 1.10558+02 1.74510+02 2.76556+02 4.41255+02 7.10035+02 1.15790+03 1.92770+03 3.31436+03 5.93827+03 1.16485+04 2.54736+04 6.35521+04
			T= 46(	00	A]R	
LOG RHO -DO	7 1-11661	E/RT 4-91008	H/RT	S/R	LOG P	ρ
•20	1.10241	4.73948	6.02669 5.84189	34-25080	1.27424	1.88036+01
-40	1.08940	4.57544	5-66484	33.56930 32.90063	1.46868	2-94225+01
-60	1-07824	4.42303	5.50127	32.24918	1.66353 1.85906	4.60819+01
.80	1-06968	4.28562	5.35530	31.61732	2.05559	7-22870+01
1.00 1.20	1-06453 1-06404	4-16476	5.22929	31.00519	2.25350	1.13655+02
1.40	1-07004	4-06061 3-97249	5.12465	30.41113	2.45330	2.83988+02
1.60	1.08567	3.89919	5.04253	29-83191	2.65574	4.52627+02
1.80	1-11641	3.839C7	4.98486 4.95547	29.26270	2.86204	7-27847+02
2.00	1.17190	3.79364	4.96555	28.69623	3-07416	1.18621+03
<b>2-20</b>	1.27061	3.75947	5-03007	28.12522	3.29523	1-97347+03
2.40	1.43378	3.75720	5 10117	27-53043	3.53035	3-39117+03

26.90964

26.22781

25.37570

24-25312

3.78282

4-07504

4-41431

4.81005

3-39117+03

6.06485+03

1-18861+04

2.59603+04

6-45729+04

T= 4500

AIR

5-19117

5.57764

6.34956

B-D2012

AIR

LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
.00	1.12459	4.97822	6.10281	34.42540	1.28668	1.93500+01
.20	1.11024	4.81100	5.92123	33.74364	1.48110	3.02761+01
•40	1.09687	4.64695	5.74382	33.07144	1.67583	4.74056+01
.60	1.08512	4.49179	5.57692	32.41394	1-87116	7.43293+01
.80	1.07584	4.34980	5.42563	31.77447	2.06743	1.16797+02
1.00	1.06993	4.22328	5.29321	31.15403	2.26504	1.84094+02
1.20	1.06866	4.11309	5.18175	30.55161	2.46452	2.91420+02
1.40	1.07393	4.01905	5.09299	29.96453	2.66666	4.64152+02
1.60	1.08890	3.94023	5.02913	29.38816	2-87267	7.45882+02
1.80	1.11901	3.87507	4.99408	28.81531	3.08451	1.21481+03
2-00	1-17378	3.82545	4.99923	28.23907	3.30527	2.01962+03
2.20	1.27192	3.78745	5.05937	27.63969	3.54014	3.46849+03
2.40	1.43256	3.78352	5-21609	27-01698	3.79180	6.19156+03
2.60	1.76987	3.83095	5.60082	26.33632	4.08362	1.21233+04
2 - BO	2.43613	3.93082	6.36695	25.48462	4.42238	2.64472+04
3.00	3.81230	4.20419	8.01649	24.36207	4.81687	6.55949+04
			T= 480	00	AIR	
LOG RHO	•	E/RT	H/RT	S/R	LOG P	P
•00 KNU	Z 1.13214	5.03883	6-17097	34.59150	1.29873	1.98944+01
.20	1.11780	4.87586	5.99366	33.91052	1.49319	3.11308+01
-40	1.10421	4.71305	5.81726	33.23611	1.68788	4.87394+01
.60		4011303	3.07150	33053011	T+00100	4.01374401
.80		4 55443	E 44843	22 67204	1 89205	7 42074401
* DV	1.09201	4.55643	5.64843	32.57386	1-88305	7.63924+01
1 00	1.08208	4-41092	5.49300	31.92785	2-07909	1.19975+02
1.00	1.08208	4.41092 4.27957	5.49300 5.35503	31.92785 31.29985	2-07909 2-27642	1.19975+02 1.88982+02
1.20	1.08208 1.07546 1.07345	4.41092 4.27957 4.16390	5.49300 5.35503 5.23735	31.92765 31.29965 30.68959	2.07909 2.27642 2.47561	1.19975+02 1.88982+02 2.98958+02
1.20	1.08208 1.07546 1.07345 1.07800	4.41092 4.27957 4.16390 4.06427	5.49300 5.35503 5.23735 5.14228	31.92785 31.29985 30.68959 30.09487	2.07909 2.27642 2.47561 2.67744	1.19975+02 1.88982+02 2.98958+02 4.75817+02
1.20 1.40 1.60	1.08208 1.07546 1.07345 1.07800 1.09230	4-41092 4-27957 4-16390 4-06427 3-98008	5.49300 5.35503 5.23735 5.14228 5.07237	31.92785 31.29985 30.68959 30.09487 29.51141	2-07909 2-27642 2-47561 2-67744 2-88316	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02
1.20 1.40 1.60 1.80	1.08208 1.07546 1.07345 1.07800 1.09230 1.12177	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174	31.92765 31.29985 30.68959 30.09487 29.51141 28.93219	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03
1.20 1.40 1.60 1.80 2.00	1.08208 1.07546 1.07345 1.07800 1.09230 1.12177	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996 3.85585	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174 5.03166	31.92785 31.29985 30.68959 30.09487 29.51141 28.93219 28.35036	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473 3.31516	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03 2.06614+03
1.20 1.40 1.60 1.80 2.00	1.08208 1.07546 1.07345 1.07800 1.09230 1.12177 1.17581 1.27338	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996 3.85585 3.81365	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174 5.03166 5.08702	31.92785 31.29985 30.68959 30.09487 29.51141 28.93219 28.35036 27.74594	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473 3.31516 3.54978	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03 2.06614+03 3.54634+03
1.20 1.40 1.60 1.80 2.00 2.20 2.40	1.08208 1.07546 1.07345 1.07800 1.09230 1.12177 1.17581 1.27338 1.43137	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996 3.85585 3.81365 3.80789	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174 5.03166 5.08702 5.23926	31.92785 31.29985 30.68959 30.09487 29.51141 28.93219 28.35036 27.74594 27.12130	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473 3.31516 3.54978 3.80058	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03 2.06614+03 3.54634+03 6.31801+03
1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.08208 1.07546 1.07546 1.07345 1.07800 1.09230 1.12177 1.17581 1.27338 1.43137	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996 3.85585 3.81365 3.80789 3.85541	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174 5.03166 5.08702 5.23926 5.62227	31.92785 31.29985 30.68959 30.09487 29.51141 28.93219 28.35036 27.74594 27.12130 26.44171	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473 3.31516 3.54978 3.80058 4.09203	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03 2.06614+03 3.54634+03 6.31801+03 1.23603+04
1.20 1.40 1.60 1.80 2.00 2.20 2.40	1.08208 1.07546 1.07345 1.07800 1.09230 1.12177 1.17581 1.27338 1.43137	4.41092 4.27957 4.16390 4.06427 3.98008 3.90996 3.85585 3.81365 3.80789	5.49300 5.35503 5.23735 5.14228 5.07237 5.03174 5.03166 5.08702 5.23926	31.92785 31.29985 30.68959 30.09487 29.51141 28.93219 28.35036 27.74594 27.12130	2.07909 2.27642 2.47561 2.67744 2.88316 3.09473 3.31516 3.54978 3.80058	1.19975+02 1.88982+02 2.98958+02 4.75817+02 7.64117+02 1.24374+03 2.06614+03 3.54634+03 6.31801+03

T= 4700

					A	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
-00	1.13925	5.09257	6.23182	34.74940	1.31040	2-04362+01
.20	1.12506	4.93478	6.05984	34.07029	1-50495	3.19853+01
.40	1.11138	4.77456	5.88594	33.39513	1.69964	5.00772+01
-60	1.09884	4.61788	5.71672	32.72960	1.89471	7.84711+01
.80	1.08837	4-47007	5.55844	32.07826	2.09056	1-23186+02
1.00	1.08111	4.33481	5.41592	31.44361	2.28765	1.93932+02
1.20	1.07838	4.21431	5.29270	30.82608	2.48655	3.06584+02
1.40	1.08223	4.10946	5.19169	30.22402	2.68810	4.87641+02
1.60	1-09585	4.020C5	5-11591	29.63357	2.89353	7.82582+02
1.80	1-12469	3.94511	5.06980	25.04801	3.10481	1.27295+03
2.00	1.17801	3.86617	5.0641B	28.46021	3.32493	2.11315+03
2-20	1-27496	3.83938	5-11434	27.85026	3.55928	3.62477+03
2.40	1.43021	3.83180	5.26202	27.22367	3.80918	6-44436+03
2.60	1.76394	3.87936	5.64330	26.54511	4-10026	1.25968+04
2.80	2-42272	3.97585	6.39857	25.69414	4.43808	2.74208+04
3.DO	3.77056	4.23797	8.00853	24.57148	4-83018	6-76363+04
			•			
	1		T= 500	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
.00	1.14565	5-14745	6.29310	34.90760	1.32160	2.09701+01
.20	1.13197	4.99579	6.12776	34.23150	1.51639	3-28390+01
-40	1.11832	4.83963	5.95795	33.55720	1.71112	5-14186+01
.60	1-10555	4-68446	5.79001	32-89002	1-90613	8.05620+01
-80	1.09465	4-53569	5.63034	32.23472	2-10183	1-26424+02
1.00	1-08681	4.39757	5.48438	31.59444	2.29871	1.98934+02
1-20	1.08343	4.27295	5.35638	30.97032	2-49735	3.14304+02
1.40	1-08660	4-16328	5.24988	30.36128	2.69862	4.99597+02
1.60	1.09956	4.06887	5.16843	29.76396	2.90377	8.01254+02
1.80	1.12775	3.98924	5.11699	29.17215	3.11477	1.30248+03
2.00	1.18039	3.92514	5.10553	28.57795	3.33458	2.16063+03
2.20	1-27668	3.87332	5.15000	27.96199	3.56863	3.70365+03
2.40	1.42908	3.86396	5.29304	27.33344	3.81761	6.57068+03
2.60	1.76111	3.91150	5.67261	24.65582	4-10834	1.28333+04
2.80						
3.00	2.41640 3.75094	4-00639 4-26320	6.42280 8.01414	25-80516 24-68245	4.44572	2.79074+04 6.86578+04

			T=  510	10	AIR	
LOG RHD	Z	E/RT	H/RT	S/R	LOG P	P
.00	1.15189	5.18938	6.34127	35.05210	1.33256	2.15060+01
•20	1.13851	5.04383	6.18233	34.37916	1.52749	3.36891+01
.40	1.12498	4.89224	6.01722	33.70639	1.72230	5.27594+01
-60	1.11210	4:73938	5.85148	33.03847	1.91730	8.26609+01
.80	1.10087	4.59051	5-69138	32.38013	2.11289	1.29685+02
1.00	1.09254	4.45031	5.54284	31.73501	2.30959	2.03981+02
1.20	1.08856	4-32221	5.41077	31-10490	2.50801	3.22114+02
1.40	1.09109	4.20817	5.29926	30.48928	2.70901	5.11694+02
1.60	1.10340	4.10905	5.21245	29.88534	2-91389	B.20144+02
1.80	1.13095	4.02492	5.15587	29.28741	3.12460	1.33229+03
2.00	1.18297	3.95571	5.13868	28.68676	3.34413	2.20867+03
2.20	1.27853	3.89883	5.17736	28.06467	3.57786	3.78321+03
2.40	1.42797	3.88769	5.31566	27.43414	3.82587	6.69684+03
2.60	1.75836	3.93519	. 5.69356	26.75742	4.11626	1.30695+04
2.80	2-41034	4.02853	6.43887	25.90709	4.45323	2.83942+04
3.00	3.73209	4.28025	8.01234	24.78431	4.84311	6.96803+04
			r= 520	<b>)</b> 0	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
+00	1.15778	5.22725	6.38503	35.19100	1.34321	2.20399+01
•20	1.14470	5.08664	6.23134	34.52023	1.53828	3.45366+01
.40	1.13136	4.93904	6.07040	33.84854	1.73319	5.40991+01
.60	1.11847	4.78841	5:90688	33.17991	1.92821	8.47637+01
-80	1.10701	4.63974	5.74675	32.51887	2.12374	1.32966+02
1.00	1.09826	4.49793	5.59620	31.86941	2.32029	2.09069+02
1.20	1.09375	4.36687	5.46062	31-23382	2.51850	3-29989+02
1.40	1.09567	4.24896	5.34464	30.61208	2.71927	5.23926+02
1.60	1.10735	4.14555	5.25290	30.00187	2.92387	8.39209+02
1.80	1.13427	4.05717	5.19144	29.39803	3.13430	1.36239+03
2.00	1.18573	3.98329	5.16902	28.79132	3.35357	2.25720+03
2.20	1.28049	3.92176	5.20225	28.16342	3.58696	3.86331+03
2.40	1.42689	3.90883	5.33572	27-53087	3.83398	6.82307+03
2.60	1.75569	3.95630	5.71199	26.85505	4.12403	1.33055+04
2.80	2-40450	4.04811	6.45262	26-00499	4.46061	2.88809+04
3.00	3.71397	4.29498	8.00895	24.88220	4.84942	7.07001+04

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			T= 530	00	AIR	
LOG RHD	z	E/RT	H/RT	S/R	LOG P	P
-00	1.16335	5-26226	6-42561	35.32550	1.35357	2.25720+01
.20	1.15060	5.12527	6.27587	34.65570	1.54879	3.53826+01
.40	1.13751	4.98094	6.11845	33.98451	1.74381	5.54383+01
-60	1.12467	4.83242	5.95709	33.31513	1.93888	8.68720+01
.80	1.11306	4.68425	5.79731	32.65178	2.13438	1.36264+02
1.00	1.10397	4-54137	5.64534	31.99853	2.33082	2-14200+02
1.20	1-09897	4.40793	5.50690	31.35804	2.52885	3.37948+02
1.40	1.10034	4.28669	5.38702	30.73068	2.72938	5.36266+02
1.60	1.11140	4.17945	5.29085	30.11464	2.93373	8.58480+02
1.80	1.13770	4-08711	5.2248L	29.50512	3.14389	1.39280+03
2.00	1.18864	4.00905	5.19769	28.89279	3.36291	2.30627+03
2.20	1.28257	3.94330	5.22587	28.25946	3.59594	3.94403+03
2.40	1.42584	3.92859	5.35443	27.62486	3.84193	6.94912+03
2.60	1.75309	3.97603	5.72913	26.94991	4-13166	1.35413+04
2.80	2.39888	4-06636	6.46524	26.10010	4-46787	2.93677+04
3.00	3.69652	4.30864	8.00516	24.97738	4.85565	7.17216+04
			T= 54(	00	AlR	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
•00	1.16867	5-29561	6.46428	35.45760	1.36367	2.31031+01
•20	1.15628	5-16073	6.31700	34.78737	1.55904	3.62276+01
.4B	1.14343	5.01886	6.16229	34.11597	1.75419	5.67793+01
•60	1.13069	4.B7228	6.00297	33.44577	1.94932	B.89857+01
-80	1.11900	4.72494	5.84393	32.7804B	2.14481	1.39576+02
1.00	1.10962	4.58155	5.69118	32.12405	2.34115	2.19356+02
1.20	1.10421	4-44635	5.55055	31-47929	2-53903	3.45963+02
1.40	1.10505	4.32239	5.42743	30.84692	2.73936	5.48732+02
1.60	1.11553	4.21182	5.32735	30-22552	2.94346	8.77930+02
1.80	1.14121	4.11585	5.25706	29.61059	3.15334	1.42344+03
2.00	1.19165	4.03416	5.22581	28.99315	3.37212	2.35570+03
2-20	1.28475	3.96467	5.24942	28.35481	3.60480	4.02532+03
2.40	1.42481	3.94817	5.37298	27.71813	3.84973	7-07506+03
2.60	1.75057	3.99560	5.74617	27-04405	4.13916	1.37772+04
2.80	2.39346	4.08448	6-47795	26.19447	4.47500	2.98538+04
3.00	3.67972	4.32244	8.00216	25.07192	4.86179	7.27428+04

			T= 550	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
.00	1.17381	5.32826	6.50207	35.58740	1.37354	2.36342+01
-20	1.16177	5.19380	6.35557	34.91513	1.56907	3.70740+01
-40	1.14916	5.05346	6.20262	34.24266	1.76433	5.81206+01
-60	1.13655	4.90860	6.04515	33.57151	1.95953	9.11024+01
.80	1.12481	4.76242	5.88723	32.90469	2.15502	1.42896+02
1.00	1.11521	4.61915	5.73436	32.24575	2-35130	2.24543+02
1-20	1.10942	4.48288	5.59230	31.59743	2.54904	3.54030+02
1.40	1.10978	4.35687	5.46665	30.96071	2.74918	5.61281+02
1.60	1.11971	4.24354	5.36325	3C.33449	2.95305	8.97532+02
1.80	1.14481	4.14427	5.28908	29.71448	3.16268	1.45439+03
2.00	1.19473	4.05956	5.25429	29.09248	3.38122	2+40558+03
2.20	1.28703	3.98685	5.27388	28.44962 .	3.61353	4-10705+03
2.40	1.42380	3.96857	5.39237	27.81084	3.85740	7.20112+03
2.60	1.74611	4.01598	5.76410	27.13762	4.14652	1.40126+04
2.80	2-38824	4.10348	6.49171	26.28827	4.48202	3.03403+04
3.00	3.66351	4.33739	8.00091	25.16600	4.86784	7.37632+04
			T= 560	00	AIR	
LOG RHO	,	F/RT	151			P
LOG RHO	Z 1.17688	E/RT 5.36156	H/RT	S/R	LOG P	P 2.41680+01
.00	1.17888	5.36156	H/RT 6.54044	S/R 35.71700	LOG P 1.38324	P 2.41680+01 3.79219+01
-00 -20	1.17888	5.36156 5.22670	H/RT	S/R	LOG P	2.41680+01
.00	1.17888	5.36156	H/RT 6.54044 6.39384	S/R 35.71700 35.04190	LOG P 1.38324 1.57889	2.41680+01 3.79219+01
-00 -20 -40	1.17888 1.16714 1.15473	5.36156 5.22670 5.08751	H/RT 6.54044 6.39384 6.24224	S/R 35.71700 35.04190 34.36807	LOG P 1.38324 1.57889 1.77425	2.41680+01 3.79219+01 5.94634+01
.00 .20 .40 .60	1.17888 1.16714 1.15473 1.14224	5.36156 5.22670 5.08751 4.94440	H/RT 6.54044 6.39384 6.24224 6.08664	S/R 35.71700 35.04190 34.36807 33.69607	LOG P 1.38324 1.57889 1.77425 1.96953	2.41680+01 3.79219+01 5.94634+01 9.32245+01
.00 .20 .40 .60 .80	1.17888 1.16714 1.15473 1.14224 1.13048	5.36156 5.22670 5.08751 4.94440 4.79970	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018	S/R 35.71700 35.04190 34.36807 33.69607 33.02811	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02
.00 .20 .40 .60 .80 1.00 1.20	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.77768	S/R 35.71700 35.04190 34.36807 33.69607 33.02811 32.36713	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02
.00 .20 .40 .60 .80	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.77768 5.63468	S/R 35.71700 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02
.00 .20 .40 .60 .80 1.00 1.20	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.77768 5.63468 5.50691	S/R 35.71700 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889 2.75886	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452 1.12393	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239 4.27659	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.77768 5.63468 5.50691 5.40052	S/R 35.71700 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505 30.44429	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889 2.75886 2.96251	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02 9.17297+02 1.48556+03 2.45573+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.1788B 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452 1.12393 1.14847 1.19786 1.28939	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239 4.27659 4.17419 4.08673 4.01104	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.7776B 5.634691 5.50691 5.40052 5.32266 5.28459 5.30043	S/R 35.71709 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505 30.44429 29.81933 29.19303 28.54585	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889 2.75886 2.96251 3.17189 3.39018 3.62216	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02 9.17297+02 1.48556+03 2.45573+03 4.18948+03
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452 1.12393 1.14847 1.19786 1.28939 1.42282	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239 4.27659 4.17419 4.08673 4.01104 3.99095	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.7776B 5.6346B 5.50691 5.40052 5.32266 5.28459 5.30043 5.41377	S/R 35.71709 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505 30.44429 29.81933 29.19303 28.54585 27.90492	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889 2.75886 2.96251 3.17189 3.39018 3.62216 3.86492	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02 9.17297+02 1.48556+03 2.45573+03 4.18948+03 7.32690+03
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452 1.12393 1.14847 1.19786 1.28939 1.42282	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239 4.27659 4.17419 4.08673 4.01104 3.99095 4.03835	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.7776B 5.6346B 5.50691 5.40052 5.32266 5.28459 5.30043 5.41377 5.78407	S/R 35.71709 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505 30.44429 29.19303 28.54585 27.90492 27.23253	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55886 2.96251 3.17189 3.39018 3.62216 3.86492 4.15375	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02 9.17297+02 1.48556+03 2.45573+03 4.18948+03 7.32690+03 1.42479+04
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20	1.17888 1.16714 1.15473 1.14224 1.13048 1.12070 1.11459 1.11452 1.12393 1.14847 1.19786 1.28939 1.42282	5.36156 5.22670 5.08751 4.94440 4.79970 4.65698 4.52008 4.39239 4.27659 4.17419 4.08673 4.01104 3.99095	H/RT 6.54044 6.39384 6.24224 6.08664 5.93018 5.7776B 5.6346B 5.50691 5.40052 5.32266 5.28459 5.30043 5.41377	S/R 35.71709 35.04190 34.36807 33.69607 33.02811 32.36713 31.71573 31.07505 30.44429 29.81933 29.19303 28.54585 27.90492	LOG P 1.38324 1.57889 1.77425 1.96953 2.16503 2.36126 2.55889 2.75886 2.96251 3.17189 3.39018 3.62216 3.86492	2.41680+01 3.79219+01 5.94634+01 9.32245+01 1.46228+02 2.29752+02 3.62151+02 5.73931+02 9.17297+02 1.48556+03 2.45573+03 4.18948+03 7.32690+03

				•	A	
LOG RHO	Z	E/RT	H/RT	S/R	LOG P	P
•00	1.18388	5.39623	6.58011	35.84720	1.39277	2.47042+01
-20	1.17238	5.26112	6.43350	35-16946	1.58853	3.87731+01
.40	1.16013	5.12334	6.28346	34.49458	1.78396	6.08079+01
.60	1.14775	4.98228	6.13003	33.82213	1.97930	9.53455+01
.80	1.13601	4.83936	5.97537	33.15340	2.17484	1.49568+02
1.00	1.12610	4.69741	5.82351	32-49068	2.37103	2.34980+02
1.20	1.11972	4.56003	5.67975	31.83636	2.56857	3.70314+02
1.40	1.11925	4.43071	5.54996	31.19178	2.76839	5.86665+02
1.60	1.12618	4.31243	5.44062	30.55647	2.97184	9.37217+02
1.80	1.15219	4.20683	5.35901	25.92646	3-18098	1.51698+03
2.00	1.20102	4.11656	5.31758	29.29578	3.39901	2.50617+03
2.20	1.29185	4.03780	5.32965	28-64417	3.63067	4.27238+03
2.40 .	1-42186	4-01585	5.43771	28.00100	3.87232	7.45281+03
2.60	1.74341	4.06320	5-80661	27.32941	4.16086	1.44830+04
2.80	2.37832	4.14782	6.52613	26+48026	4.49573	3.13134+04
3.00	3.63278	4-37363	8.00641	25.35811	4.87970	7.58054+04
			T=  560	00	AIR	
LOG RHQ	Z	E/RT	T= 58( H/RT	00 S/R	AIR Log p	p
LOG RHQ	Z 1•18892	E/RT 5•433 <i>2</i> 2		-		p 2-52441+01
			H/RT	S/R	LOG P	•
.00	1.18892	5.43322	H/RT 6.62214	S/R 35.97810	LOG P 1.40216	2-52441+01
.00 .20	1.18892	5.43322 5.29800	H/RT 6.62214 6.47551	S/R 35.97810 35.29790	LOG P 1.40216 1.59798	2.52441+01 3.96260+01
.00 .20 .40 .60 .80	1.18892 1.17751 1.16535	5.43322 5.29800 5.16189	H/RT 6.62214 6.47551 6.32725	\$/R 35.97810 35.29790 34.62232	LOG P 1.40216 1.59798 1.79347	2.52441+01 3.96260+01 6.21541+01
.00 .20 .40 .60 .80	1.18892 1.17751 1.16535 1.15308	5.43322 5.29800 5.16189 5.02321	H/RT 6.62214 6.47551 6.32725 6.17629	\$/R 35.97810 35.29790 34.62232 33.94980	LOG P 1.40216 1.59798 1.79347 1.98887	2.52441+01 3.96260+01 6.21541+01 9.74698+01
.00 .20 .40 .60 .80 1.00	1.18892 1.17751 1.16535 1.15308 1.14138	5.43322 5.29800 5.16189 5.02321 4.88237	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850	S/R 35.97810 35.29790 34.62232 33.94980 33.28068	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02
.00 .20 .40 .60 .80 1.00 1.20	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02
.00 .20 .40 .60 .80 1.00 1.20 1.40	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850 5.59680 5.48452	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87285 5.72850 5.59680 5.48452 5.39913	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945 31.31105	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.77777	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247 1.15597	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316 4.15003	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850 5.59680 5.48452 5.39913 5.35426	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945 31.31105 30.67116 30.03602 29.40087	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.77777	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02 9.57282+02
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247 1.13597 1.20423 1.29438	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316 4.15003 4.06813	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.872850 5.72850 5.72850 5.59680 5.48452 5.39913 5.35426	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.959105 31.959105 30.67116 30.03602 29.40087 28.74472	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.77777 2.98104 3.18996 3.40772 3.63907	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02 9.57282+02 1.54867+03
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.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247 1.15597 1.20423 1.29438 1.42093	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316 4.15003 4.06813 4.04424 4.09153	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850 5.59680 5.48452 5.35426 5.35426 5.36251 5.46517 5.83269	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945 31.31105 30.67116 30.67116 30.67116 29.40087 28.74472 28.09922 27.42839	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.7777 2.98104 3.18996 3.40772 3.63907 3.87958 4.16785	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02 9.57282+02 1.54867+03 2.55694+03 4.35582+03 7.57844+03 1.47180+04
.00 .20 .40 .60 .80 1.00 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247 1.15597 1.20423 1.29438 1.42093 1.74115 2.37361	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316 4.15003 4.06813 4.04424 4.09153 4.17459	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850 5.59680 5.48452 5.35426 5.35426 5.36251 5.46517 5.83269 6.54821	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945 31.31105 30.67116 3C.03602 29.40087 28.74472 28.09922 27.42839 26.57914	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.7777 2.98104 3.18996 3.40772 3.63907 3.87958 4.16785 4.50242	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02 9.57282+02 1.54867+03 2.55694+03 4.35582+03 7.57844+03 1.47180+04 3.17995+04
.00 .20 .40 .60 .80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60	1.18892 1.17751 1.16535 1.15308 1.14138 1.13139 1.12480 1.12398 1.13247 1.15597 1.20423 1.29438 1.42093	5.43322 5.29800 5.16189 5.02321 4.88237 4.74143 4.60371 4.47282 4.35204 4.24316 4.15003 4.06813 4.04424 4.09153	H/RT 6.62214 6.47551 6.32725 6.17629 6.02374 5.87282 5.72850 5.59680 5.48452 5.35426 5.35426 5.36251 5.46517 5.83269	S/R 35.97810 35.29790 34.62232 33.94980 33.28068 32.61651 31.95945 31.31105 30.67116 30.67116 30.67116 29.40087 28.74472 28.09922 27.42839	LOG P 1.40216 1.59798 1.79347 1.98887 2.18444 2.38062 2.57808 2.7777 2.98104 3.18996 3.40772 3.63907 3.87958 4.16785	2.52441+01 3.96260+01 6.21541+01 9.74698+01 1.52911+02 2.40226+02 3.78512+02 5.99474+02 9.57282+02 1.54867+03 2.55694+03 4.35582+03 7.57844+03 1.47180+04

			T= 590	00	AIR	
LOG RHO	Z	E/RT	H/RT	S/R	LDG P	P
-00	1-19404	5.47350	6.66754	36.11160	1.41146	2.57905+01
-20	1-18251	5.33833	6.52084	35.42914	1.60724	4-04800+01
-40	1.17041	5-20416	6.37457	34.75318	1.80277	6.34995+01
-60	1-15822	5.06816	6.22639	34-08100	1.99823	9.95933+01
.80	1.14659	4.92971	6.07630	33.41188	2.19384	1.56257+02
1.00	1.13658	4.79002	5.92660	32.74657	2.39003	2-45488+02
1.20	1.12982	4.65210	5.78192	32.08696	2.58744	3.86759+02
1.40	1.12871	4.51971	5.64842	31-43479	2.78702	6-12379+02
1.60	1.13680	4.39642	5.53322	30.79031	2.99012	9.77507+02
1.80	1.15981	4.28420	5.44401	30-14993	3.19882	1.58059+03
2.00	1-20747	4.18813	5.39561	29.51024	3.41631	2.60801+03
2-20	1-29701	4-1030L	5-40002	28.84944	3.64738	4.43997+03
2.40	1.42002	4.07713	5.49715	28.20152	3.88673	7.70424+03
2.60	1.73896	4.12433	5.86329	27.53141	4.17472	1-49527+04
2.80	2.36909	4.20575	6.57484	26.68193	4.50902	3-22864+04
3.00	3.60419	4.42285	B.02704	25.55870	4.89124	7.78467+04
			T≖ 60(	00	AIR	
LOG RHO	2	E/RT	H/RT	S/R	LOG P	P
•00	1.19931	5.51750	6.71681	36.24820	1.42067	2.63433+01
-20	1.18737	5.38254	6.56991	35.56368	1.61632	4.13352+01
-40	1.17528	5-25057	6.42585	34.88769	1.81187	6.48440+01
-60	1.16318	5.11759	6-28077	34.21626	2.00738	1.01714+02
.80	1.15164	4.98183	6.13347	33.54753	2.20305	1.59606+02
1-00	1.14165	4.84365	5.98530	32.88138	2.39927	2.50767+02
1.20	1.13479	4-70568	5.84047	32.21941	2.59665	3.95048+02
1.40	1.13343	4.57184	5.70527	31.56356	2.79613	6.25360+02
1.60	1-14116	4.44603	5.58719	3C.91446	2.99908	9.97884+02
1.80	1.16372	4.33039	5-49411	30.26875	3.20758	1-61280+03
2.00	1.21076	4.23133	5-44209	29.62443	3-42479	2-65944+03
2.20	1.29973	4-14289	5.44262	28-95885	3-65559	4.52470+03
2.40	1.41913	4-11496	5.53409	28-30842	3.89376	7.82997+03
2.60	1.73683	4.16204	5-89888	27-63899	4.18149	1.51876+04
2.60	2.36473	4-24175	6-60648	26.78915	4.51552	3.27733+04
3.00	3.59066	4.45427	8-04493	25.66495	4.89691	7.88697+04

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